



Guidelines for Buying Environmentally Preferable Products

Introduction

This Guide lists over 100 commercial products and services and the environmental attributes to consider when purchasing or specifying them. The Guide was developed to assist Alameda County businesses and public agencies procure environmentally preferable products (EPP).

Environmental attributes of products may include the product's ability to be:

- reusable,
- less toxic,
- energy-efficient,
- water-conserving,
- remanufactured,
- rechargeable,
- recyclable or
- more durable.

Product attributes may also include:

- reduced packaging or
- a product made from bio-based or
- recycled materials.

Defining what is “green” is complex and takes time to learn, so these Guidelines aim to simplify the process. Listed by product category, you will find environmental standards and/or guidelines which can be incorporated into purchasing requirements. Additional resources are also provided.

Several U.S. and international organizations and agencies have developed highly acclaimed environmental guidelines and standards. For instance, the U.S. Environmental Protection Agency (EPA) has established Comprehensive Procurement Guidelines (CPG) that recommend minimum recycled content levels for dozens of products. The U.S. Department of Agriculture provides guidance on purchasing bio-based products. The EPA's ENERGY STAR program has more than 35 product categories, each with an ENERGY STAR label indicating these products use less energy than competing products and reduce both energy costs and environmental impacts. Certification organizations, such as Green Seal (GS) and Scientific Certification Systems (SCS), provide third party certification for green marketing claims.

Environmental standards and guidelines are a useful tool for purchasers. The U.S. EPA has used them to identify and increase their purchase of environmentally preferable office supplies. Federal agencies, such as the Department of Energy, NASA and the National Park Service, have successfully used environmental standards on purchases to meet laws requiring federal agencies to give preference to environmentally preferable products and services.

Organizations interested in incorporating environmental attributes into purchasing practices, as others have done, can use this resource to help get started. First, identify and prioritize a few products appropriate for your organization. Include the standards and/or specifications provided in this guide in your purchasing language. In some cases, additional product resources are also provided.

For questions or assistance:

- Local governments in Alameda County can contact Debra Kaufman <dkaufman@stopwaste.org> or Rachel Balsley <rbalsley@stopwaste.org> for information about environmental purchasing assistance.
- Also see www.StopWaste.Org/EPP.
- Call toll-free for assistance at (877) STOPWASTE (786-7927).

Disclaimer

The information in this Guide is provided as a public service for public agency and business purchasers who are interested in buying environmentally preferable products. In all available cases, third party standards have been used to provide product guidelines and information, but have not been independently verified by StopWaste. Examples of acceptable third parties include, but are not limited to: the U.S. Environmental Protection Agency, the State of California and other public entities; Green Seal ; UL Environment; Forest Stewardship Council; Energy Star; and the U.S. Green Building Council.

Listing in this Guide is not a substitute for the exercise of sound judgment in particular circumstances and is not intended as a recommendation or endorsement for particular products or processes by StopWaste. StopWaste is the Alameda County Waste Management Authority, the Alameda County Source Reduction and Recycling Board, and the Energy Council operating as one public agency.

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Guidelines for Buying Environmentally Preferable Products: Paper Office Supplies

Product Category & Products	Environmental Attributes to Consider When Purchasing	Green Standard/Guidelines	Notes/Further Information		
Paper Office Supplies – Cut and Continuous Paper					
Copy paper, white and colored	<p>EPA: Minimum 30% postconsumer content (the percent of the product containing materials once used by consumers and recycled into new products)</p> <p>Green Seal: Certified to meet Green Seal's Printing & Writing Standard (GS-07)</p> <p>EcoLogo: Certified to meet UL 2771 Paper Products Standard</p>	<p>U.S. Environmental Protection Agency (EPA's) Comprehensive Procurement Guidelines (CPG), www.epa.gov/waste/consERVE/tools/cpg/products/paperproducts.htm#printing</p> <p>Green Seal's Printing & Writing Paper Standard, GS-07, www.greenseal.org/Portals/0/Documents/Standards/GS-7/GS-7_Ed6-1_Printing_and_Writing_Paper.pdf</p> <p>EcoLogo's Paper Products Standard, UL 2771, www.ul.com/global/eng/pages/offering_s/businesses/environment/services/ELmark/#office</p>	<p>Refer to StopWaste's "Environmentally Preferable Paper Office Products" Fact Sheet for sample specifications and local resources, www.StopWaste.Org/EPP</p> <p>Chlorine Free Products Association, www.chlorinefreeproducts.org</p>		
Paper Office Supplies - Printing and Writing Paper					
Reprographic	<p>EPA: Minimum 30% postconsumer content</p> <p>Green Seal: Certified to meet Green Seal's Printing & Writing Standard (GS-07)</p> <p>EcoLogo: Certified to meet UL 2771 Paper Products Standard</p>	<p>EPA's CPG, www.epa.gov/waste/consERVE/tools/cpg/products/paperproducts.htm#printing</p> <p>Green Seal's Printing & Writing Paper Standard, GS-07, www.greenseal.org/Portals/0/Documents/Standards/GS-7/GS-7_Ed6-1_Printing_and_Writing_Paper.pdf</p> <p>EcoLogo's Paper Products Standard, UL 2771, www.ul.com/global/eng/pages/offering_s/businesses/environment/services/ELmark/#office</p>	Business paper such as bond, copy, mimeo, and duplicator.		
Offset			Used for book publishing, direct mail, technical documents, manuals.		
Tablet			Office paper such as note pads, notebooks.		
Forms bond			Bond type papers such as continuous, cash register, sales book, computer printout.		
File folders			Manila or colored		
Envelopes, White Woven					
Envelopes, Kraft, white and colored (including manila)			EPA: Minimum 10-20% postconsumer content	EPA's CPG, www.epa.gov/waste/consERVE/tools/cpg/products/paperproducts.htm#printing	
Envelopes, Kraft, unbleached			EPA: Minimum 10% postconsumer content		

Guidelines for Buying Environmentally Preferable Products: Paper Office Supplies

Product Category & Products	Environmental Attributes to Consider When Purchasing	Green Standard/Guidelines	Notes/Further Information
Cotton fiber	EPA: Minimum 30% postconsumer content Green Seal: Certified to meet Green Seal's Printing & Writing Paper Standard (GS-07) EcoLogo: Certified to meet UL 2771 Paper Products Standard	EPA's CPG, www.epa.gov/waste/conservation/tools/cpg/products/paperproducts.htm#printing	High quality papers for stationery, invitations
Text and cover		Green Seal's Printing & Writing Standard, GS-07, www.greenseal.org/Portals/0/Documents/Standards/GS-7/GS-7_Ed6-1_Printing_and_Writing_Paper.pdf EcoLogo's Paper Products Standard, UL 2771, www.ul.com/global/eng/pages/offering/s/businesses/environment/services/ELmark/#office	Premium paper used for cover stock, books, and stationery and matching envelopes
Supercalendered	EPA: Minimum 10% postconsumer content	EPA's CPG, www.epa.gov/waste/conservation/tools/cpg/products/paperproducts.htm#printing	Groundwood paper use for advertising and mail order inserts, catalogs and some magazines
Machine finished Groundwood			Groundwood paper used in magazines and catalogs
Papetries	EPA: Minimum 30% postconsumer content Green Seal: Certified to meet Green Seal's Printing & Writing Paper Standard (GS-07)	Green Seal's Printing & Writing Standard, GS-07, www.greenseal.org/Portals/0/Documents/Standards/GS-7/GS-7_Ed6-1_Printing_and_Writing_Paper.pdf	Used for invitations and greeting cards
Check safety	EPA: Minimum 10% postconsumer content		Used in the manufacture of commercial and government checks
Coated	EPA: Minimum 10% postconsumer content Green Seal: Certified to meet Green Seal's Coated Printing Paper Standard (GS-10) EcoLogo: Certified to meet UL 2771 Paper Products Standard	EPA's CPG, www.epa.gov/waste/conservation/tools/cpg/products/paperproducts.htm#printing Green Seal's Coated Printing Paper Standard, GS-10, www.greenseal.org/Portals/0/Documents/Standards/GS-10/GS-10Ed2-1_Coated_Printing_Paper.pdf EcoLogo's Paper Products Standard, UL 2771, www.ul.com/global/eng/pages/offering/s/businesses/environment/services/ELmark/#office	Used for annual reports, posters, magazines
Carbonless	EPA: Minimum 30% postconsumer content	EPA's CPG, www.epa.gov/waste/conservation/tools/cpg/products/paperproducts.htm#printing	
Dyed filing products	EPA: Minimum 20% postconsumer content		Used for multicolored hanging folders and wallet files
Index and card stock			Used for index cards and postcards
Pressboard			High-strength paperboard used in binders and report covers
Tags and tickets			Used for toll and lottery tickets

Guidelines for Buying Environmentally Preferable Products: Paper Office Supplies

Product Category & Products	Environmental Attributes to Consider When Purchasing	Green Standard/Guidelines	Notes/Further Information
Self-stick notes	Green Seal: Certified to meet Green Seal's Sanitary Paper Products Standard (GS-07)	Green Seal's Printing & Writing Paper Standard, GS-07, www.greenseal.org/Portals/0/Documents/Standards/GS-7/GS-7_Ed6-1_Printing_and_Writing_Paper.pdf	
Paper Office Supplies - Miscellaneous Papers			
Tray Liners/Placemats/Table Coverings	EPA: 50-75% postconsumer content Green Seal: Certified to meet Green Seal's Sanitary Paper Products Standard (GS-01)	EPA's CPG, www.epa.gov/waste/conserve/tools/cpg/products/paperproducts.htm#misc Green Seal's Sanitary Paper Products Standard, GS-01, www.greenseal.org/Portals/0/Documents/Standards/GS-1/GS-1_Ed6-1_Sanitary_Paper_Products.pdf	
Newsprint	EPA: Minimum 20-85% postconsumer content Green Seal: Certified to meet Green Seal's Newsprint Standard (GS-01) EcoLogo: Certified to meet UL 2771 Paper Products Standard	EPA's CPG, www.epa.gov/waste/conserve/tools/cpg/products/paperproducts.htm#misc Green Seal's Newsprint Standard, GS-15, www.greenseal.org/Portals/0/Documents/Standards/GS-15/GS-15Ed1-1_Newsprint.pdf EcoLogo's Paper Products Standard, UL 2771, www.ul.com/global/eng/pages/offering_s/businesses/environment/services/ELmark/#office	
Paper Office/Sanitary Supplies - Commercial/Sanitary Industrial Tissue			
Paper Towels	EPA: Minimum 40-60% postconsumer content Green Seal: Certified to meet Green Seal's Sanitary Paper Products Standard (GS-01) EcoLogo: Certified to meet UL 175 Sanitary Paper Products Standard	EPA's CPG, www.epa.gov/waste/conserve/tools/cpg/products/paperproducts.htm#tissue Green Seal's Sanitary Paper Products Standard, GS-01, www.greenseal.org/Portals/0/Documents/Standards/GS-1/GS-1_Ed6-1_Sanitary_Paper_Products.pdf EcoLogo's UL 175 Sanitary Paper Products Standard, UL/ECOLOGO Product Certification, www.ul.com/global/eng/pages/offering_s/businesses/environment/services/ELmark/#cleaning	Refer to StopWaste's "Environmentally Preferable Janitorial Paper Supplies" Fact Sheet for sample specifications and local resources, www.StopWaste.Org/EPP Refer to StopWaste's Guide to Green Maintenance & Operations for action items, purchasing strategies and more resources, www.StopWaste.Org/EPP

Guidelines for Buying Environmentally Preferable Products: Paper Office Supplies

Product Category & Products	Environmental Attributes to Consider When Purchasing	Green Standard/Guidelines	Notes/Further Information
Toilet Tissue	<p>EPA: Minimum 20-60% postconsumer content;</p> <p>Green Seal: Certified to meet Green Seal's Sanitary Paper Products Standard (GS-01)</p> <p>EcoLogo: Certified to meet UL 175 Sanitary Paper Products Standard</p>	<p>EPA's CPG, www.epa.gov/waste/consERVE/tools/cpg/products/paperproducts.htm#tissue</p> <p>Green Seal's Sanitary Paper Products Standard, GS-01, www.greenseal.org/Portals/0/Documents/Standards/GS-1/GS-1_Ed6-1_Sanitary_Paper_Products.pdf</p> <p>EcoLogo's UL 175 Sanitary Paper Products Standard, www.ul.com/global/eng/pages/offering_s/businesses/environment/services/ELmark/#cleaning</p>	<p>Refer to StopWaste's "Environmentally Preferable Janitorial Paper Supplies" Fact Sheet for sample specifications and local resources, www.StopWaste.Org/EPP</p>
Facial Tissue	<p>EPA: Minimum 10-15% postconsumer content;</p> <p>Green Seal: Certified to meet Green Seal's Sanitary Paper Products Standard (GS-01)</p> <p>EcoLogo: Certified to meet UL 175 Sanitary Paper Products Standard</p>	<p>EPA's CPG, www.epa.gov/waste/consERVE/tools/cpg/products/paperproducts.htm#tissue</p> <p>Green Seal's Sanitary Paper Products Standard, GS-01, www.greenseal.org/Portals/0/Documents/Standards/GS-1/GS-1_Ed6-1_Sanitary_Paper_Products.pdf</p> <p>EcoLogo's UL 175 Sanitary Paper Products Standard, UL/ECOLOGO Product Certification, www.ul.com/global/eng/pages/offering_s/businesses/environment/services/ELmark/#cleaning</p>	<p>Refer to StopWaste's "Environmentally Preferable Janitorial Paper Supplies" Fact Sheet for sample specifications and resources, www.StopWaste.Org/EPP</p>
Seat Covers	<p>Green Seal: Certified to meet Green Seal's Sanitary Paper Products Standard (GS-01)</p>	<p>Green Seal's Sanitary Paper Products Standard, GS-01, www.greenseal.org/Portals/0/Documents/Standards/GS-1/GS-1_Ed6-1_Sanitary_Paper_Products.pdf</p>	<p>Refer to StopWaste's "Environmentally Preferable Janitorial Paper Products" Fact Sheet for sample specifications and local resources, www.StopWaste.Org/EPP</p>
Paper napkins	<p>EPA: Minimum 30-60% postconsumer content</p> <p>Green Seal: Certified to meet Green Seal's Sanitary Paper Products Standard (GS-01)</p> <p>EcoLogo: Certified to meet UL 175 Sanitary Paper Products Standard</p>	<p>EPA's CPG, www.epa.gov/waste/consERVE/tools/cpg/products/paperproducts.htm#tissue</p> <p>Green Seal's Sanitary Paper Products Standard, GS-01, www.greenseal.org/Portals/0/Documents/Standards/GS-1/GS-1_Ed6-1_Sanitary_Paper_Products.pdf</p> <p>EcoLogo's UL 175 Sanitary Paper Products Standard, UL/ECOLOGO Product Certification, www.ul.com/global/eng/pages/offering_s/businesses/environment/services/ELmark/#cleaning</p>	<p>Refer to StopWaste's "Environmentally Preferable Janitorial Paper Products" Fact Sheet for sample specifications and local resources, www.StopWaste.Org/EPP</p>

Guidelines for Buying Environmentally Preferable Products: Paper Office Supplies

Product Category & Products	Environmental Attributes to Consider When Purchasing	Green Standard/Guidelines	Notes/Further Information
General purpose industrial wipers	EPA: Minimum 40% postconsumer content Green Seal: Certified to meet Green Seal's Sanitary Paper Products Standard (GS-01)	EPA's CPG, www.epa.gov/waste/consERVE/tools/cpg/products/paperproducts.htm#tissue Green Seal's Sanitary Paper Products Standard, GS-01, www.greenseal.org/Portals/0/Documents/Standards/GS-1/GS-1_Ed6-1_Sanitary_Paper_Products.pdf	
Paper Office Supplies - Paperboard and Packaging Products			
Corrugated containers	EPA: <300psi: 25-50% postconsumer, 300 psi: 25-30% postconsumer content	EPA's CPG, www.epa.gov/waste/consERVE/tools/cpg/products/paperproducts.htm#paperboard	
Solid fiber boxes	EPA: 40% postconsumer content		
Folding cartons	EPA: 40-80% postconsumer content		
Industrial paperboard	EPA: 45-100% postconsumer content		
Miscellaneous	EPA: 75-100% postconsumer content		
Padded mailers	EPA: 5-15% postconsumer content		
Carrierboard	EPA: 10-15% postconsumer content		
Brown papers	EPA: 5-20% postconsumer content		

Guidelines for Buying Environmentally Preferable Products: Nonpaper Office Supplies

Product Category & Products	Environmental Attributes to Consider When Purchasing	Green Standard/Guidelines	Notes/Further Information
Nonpaper Office Supplies			
Toner Cartridges	EPA recommends agencies procure remanufactured toner cartridges or new toner cartridges with recovered materials (includes both pre-consumer and post-consumer content).	EPA's CPG, www.epa.gov/waste/conserves/tools/cpg/products/nonpaperoffice.htm#toner	StopWaste's "Remanufactured Toner Cartridges in Alameda County" Fact Sheet, www.StopWaste.Org/EPP
Ribbons (Printer)	Procure printer ribbons reinking or reloading services or procure reinked or reloaded printer ribbons	EPA's CPG, www.epa.gov/waste/conserves/tools/cpg/products/nonpaperoffice.htm#printer	
Plastic Desktop Accessories (desk organizers, sorters, trays, and memo, note and pencil holders)	EPA: 25-80% postconsumer content; Consider alternatives to vinyl (PVC) products	EPA's CPG, www.epa.gov/waste/conserves/tools/cpg/products/nonpaperoffice.htm#desktop	Sustainable Hospitals: Reducing PVC in the Office, www.sustainablehospitals.org/HTMLSrc/PVC_office.html
Plastic Envelopes	EPA: Minimum 25% postconsumer content	EPA's CPG, www.epa.gov/waste/conserves/tools/cpg/products/nonpaperoffice.htm#envelopes	
Binders, 3-ring, Plastic covered paperboard	EPA: 20% postconsumer content in pressboard Consider alternatives to vinyl (PVC)		
Binders, Paper covered paperboard	EPA: 75-100% postconsumer content	EPA's CPG for Binders, www.epa.gov/waste/conserves/tools/cpg/products/nonpaperoffice.htm#binders	StopWaste's "Environmentally Preferable Nonpaper Office Products" Fact Sheet, www.stopwaste.org/docs/fact-nonpaper.pdf
Binders, Solid Plastic	EPA: HDPE-90% postconsumer, PE-30-50% postconsumer, PET-100% postconsumer contents		Sustainable Hospitals: Reducing PVC in the Office, www.sustainablehospitals.org/HTMLSrc/PVC_office.html
Office Waste & Recycling Receptacles	EPA: Plastic: 20-100% postconsumer content Paper: 25-80% postconsumer content depending on type (corrugated, solid fiber, paperboard) Steel: 16% postconsumer content	EPA's CPG, www.epa.gov/waste/conserves/tools/cpg/products/nonpaperoffice.htm#waste	StopWaste's "Environmentally Preferable Nonpaper Office Products" Fact Sheet, www.StopWaste.Org/EPP
Clipboards, Plastic	EPA: HDPE-90% postconsumer, PE-30-50% postconsumer, PET-100% postconsumer contents	EPA's CPG, www.epa.gov/waste/conserves/tools/cpg/products/nonpaperoffice.htm#binders	
Pens and pencils	Choose refillable. If single-use, look for 50% postconsumer content or compostable. Consider certifying to meet EcoLogo UL 2773 Pens, Mechanical Pencils, and Other Writing Instruments Standard.	EcoLogo's UL 2773 Pens, Mechanical Pencils, and Other Writing Instruments Standard, UL/ECOLOGO Product Certification, www.ul.com/global/eng/pages/offerings/businesses/environment/services/ELmark/#office	

Guidelines for Buying Environmentally Preferable Products: Nonpaper Office Supplies

Product Category & Products	Environmental Attributes to Consider When Purchasing	Green Standard/Guidelines	Notes/Further Information
Paper Clips	Consider metal or plastic paper clips instead of vinyl (PVC) coated paper clips		Sustainable Hospitals: Reducing PVC in the Office, www.sustainablehospitals.org/HTMLSrc/PVC_office.html
Report Covers	Consider polypropylene or pressboard covers instead of vinyl (PVC) covers		
Sheet Protectors	Consider polypropylene instead of vinyl (PVC) sheet covers		
Plastic Presentation Folders (HDPE)	EPA: 90% postconsumer content	EPA's CPG, www.epa.gov/waste/consERVE/tools/cpg/products/nonpaperoffice.htm#binders	
Labels	30% postconsumer content and/or free of chlorine or any derivatives as a bleaching agent (such as paper that is processed chlorine-free)	Green Seal's Printing & Writing Paper Standard, GS-07, www.greenseal.org/Portals/0/Documents/Standards/GS-7/GS-7_Ed6-1_Printing_and_Writing_Paper.pdf	
Deskside Recycling Boxes	EPA: Corrugated paper: 25-50% postconsumer content Solid fiber boxes: 40% postconsumer content Industrial paperboard: 40-80% postconsumer content	EPA's CPG, www.epa.gov/waste/consERVE/tools/cpg/products/nonpaperoffice.htm#waste	
Highlighters and markers	Water base, certified AP nontoxic ("approved product" by Art & Creative Materials Institute, ACMI), conforming to ASTM D-4236. Choose refillable if available. Dry erase or permanent markers: choose "low odor."		The Art & Creative Materials Institute, Inc. (ACMI) certification program, www.acminet.org
Batteries	Choose rechargeable (where applicable), longer lasting; request suppliers take-back spent rechargeable batteries for recycling.	INFORM, www.informinc.org/fact_CWPbattery.php	StopWaste's Fact Sheet, Using Rechargeable Batteries, www.StopWaste.Org/EPP For recycling information, visit Call2Recycle, www.call2recycle.org/ California law requires all batteries be handled as universal waste and not disposed in landfill.
Battery Rechargers	Purchase rechargers that can recharge several types of batteries	INFORM, www.informinc.org/fact_CWPbattery.php	
Correction fluid	Ozone-safe (no harmful solvents), water-based, certified AP non-toxic ("approved product" by Art & Creative Materials Institute, ACMI).		The Art & Creative Materials Institute, Inc. (ACMI) certification program, www.acminet.org
Transparencies	Minimum 25% postconsumer content		

Guidelines for Buying Environmentally Preferable Products: Office Equipment

Product Category & Products	Environmental Attributes to Consider When Purchasing	Green Standard/Guidelines	Notes/Further Information
Office Equipment			
<p>Imaging Equipment (Copiers, Printers, Laser Printers, Digital Duplicators, Fax Machines, Scanners, Mailing Machines and Multi-Functional Devices)</p>	<p>ENERGY STAR-qualified EPEAT-registered State of CA: Environmental Specifications for Multi-Functional Devices and Printers</p>	<p>ENERGY STAR, www.energystar.gov/certified-products/detail/imaging_equipment State of California Department of General Services Buying Green Guide, Environmental Specifications for Multi-Functional Devices and Printers, www.documents.dgs.ca.gov/pd/epp/oe/mfd/20120918_Environmental_Specs_MFD.pdf</p>	<p>EPA's "Greening Your Purchases of Copier," www.epa.gov/oppt/epp/pubs/copiers.htm The Federal government requires 95% of all applicable products be EPEAT-registered. EPEAT (the Electronic Product Environmental Assessment Tool) contains more than 50 required and optional lifecycle performance criteria in 8 performance categories (10 categories for Imaging Equipment). For a list of EPEAT-registered products, visit www.epeat.net</p>
<p>Printing Services</p>	<p>Service provider becomes a certified Bay Area Green Business; suggested criteria may include: service uses recycled paper, low VOC inks, recycles, and supports using less paper and packaging when possible</p>	<p>Bay Area Green Business, www.greenbiz.ca.gov EcoLogo's Printing Services Standard, UL 2803, www.ul.com/global/eng/pages/offering/businesses/environment/services/ELmark/#electronics</p>	
<p>Computers, Monitors, Laptops/Notebooks, Thin Clients, Work Stations, Small-Scale Servers</p>	<p>ENERGY STAR-qualified EPEAT-registered</p>	<p>ENERGY STAR, www.energystar.gov/certified-products/detail/computers</p>	<p>The Federal government requires 95% of all applicable products be EPEAT-registered. EPEAT (the Electronic Product Environmental Assessment Tool) contains more than 50 required and optional lifecycle performance criteria in 8 performance categories (10 categories for Imaging Equipment). For a list of EPEAT-registered products, visit www.epeat.net</p>
<p>Televisions</p>	<p>ENERGY STAR-qualified EPEAT-registered</p>	<p>ENERGY STAR, www.energystar.gov/certified-products/detail/televisions</p>	<p>The Federal government requires 95% of all applicable products be EPEAT-registered. EPEAT (the Electronic Product Environmental Assessment Tool) contains more than 50 required and optional lifecycle performance criteria in 8 performance categories (10 categories for Imaging Equipment). For a list of EPEAT-registered products, visit www.epeat.net</p>

Guidelines for Buying Environmentally Preferable Products: Building Maintenance

Product Category & Products	Environmental Attributes to Consider When Purchasing	Green Standard/Guidelines	Notes/Further Information
Building & Facility Maintenance			
Graffiti Removers	Based on the "Graffiti Remover and Field Test Report," some of the screening criteria that can be used to evaluate graffiti removers include: product does not contain ingredients listed in Prop 65, Chemicals Known to the State of California to Cause Cancer or Reproductive Toxicity; product does not contain PBTs (persistent, bioaccumulative toxins) as determined by EPA's PBT Profiler; product does not have any ingredients that rate above 20 on the Indiana Relative Chemical Hazard Score (IRCHS); product is not an aerosol; product does not contain dimethyl sulfoxide (DMSO).	Green Seal's Specialty Cleaning Products for Industrial and Institutional Use Standard, GS-53, www.greenseal.org/Portals/0/Documents/Standards/GS-53/GS-53_Ed2-1_Specialty_Cleaning_Products_for_Industrial_and_Institutional_Use.pdf	"Graffiti Remover and Field Test Report: The Search for Safer Products (2003)," www.responsiblepurchasing.org/publications/Graffiti_Report.pdf Refer to StopWaste's Guide to Green Maintenance & Operations for action items and purchasing strategies for janitorial cleaning products, www.stopwaste.org/EPP
Graffiti and Grease Removers	USDA BioPreferred: Industrial solvent products formulated to remove automotive, industrial, or kitchen soils and oils, including grease, paint, and other coatings, from hard surfaces - 34% minimum biobased content.	USDA BioPreferred Program, www.biopreferred.gov	USDA BioPreferred Program list of USDA Certified Biobased Graffiti and Grease Removers, www.biopreferred.gov/bioPreferredCatalog/faces/jsp/catalogSubCategoryLanding.jsp
Urinals	Install High Efficiency Urinals (HEUs) that flush at 0.5 gpf or less (gallons per flush) or non-water urinals.	The California Urban Water Conservation Council, www.cuwcc.org/Resources/ProductInformation/UrinalFixtures.aspx GreenPoint Rated uses this threshold.	The HEU is defined as a fixture that flushes at 0.5-gpf/1.9-lpf or less, a threshold that is 50 percent of the current U.S. national standard (maximum) Refer to StopWaste's Guide to Green Maintenance & Operations for action items, purchasing strategies and more resources for water efficient products, www.stopwaste.org/EPP
Toilets	EPA WaterSense: Use 20% less water than the current Federal standard; this translates to 1.28 gpf (gallons per flush) toilets	EPA WaterSense, www.epa.gov/watersense/pubs/toilets.htm for a list of qualified toilets	For more information on High Efficiency Toilets (HETs), visit www.cuwcc.org . Updates to the MaP Testing of popular toilet models can be found at www.map-testing.com Refer to StopWaste's Guide to Green Maintenance & Operations for action items, purchasing strategies and more resources for water efficient products, www.stopwaste.org/EPP
Faucets	EPA WaterSense: Faucets must be 30%+ more efficient than federal minimum; this translates to 1.5 gpm (gallons per minute) faucets (except kitchen sinks or maintenance closet sinks)	EPA WaterSense, www.epa.gov/watersense/products/bathroom_sink_faucets.html	Refer to StopWaste's Guide to Green Maintenance & Operations for action items, purchasing strategies and more resources for water efficient products, www.stopwaste.org/EPP

Guidelines for Buying Environmentally Preferable Products: Building Maintenance

Product Category & Products	Environmental Attributes to Consider When Purchasing	Green Standard/Guidelines	Notes/Further Information
<p>Lighting Fixtures, Bulbs, Florescent Tubes</p>	<p>Use high efficiency lamps (CFLs or T8 or T5), linear fluorescents with minimum of 12,000 hours rated life, pin-based CFLs, electronic and low-power ballasts, and low mercury lamps (Green Seal standard for CFLs is 3 milligrams of mercury or less).</p> <p>State of CA: All CFLs shall contain no more than 5 milligrams mercury; All self-ballasted CFLs shall be ENERGY STAR qualified; All fluorescent lamps offered shall be compliant with the U.S. EPA Toxicity Characteristic Leaching Procedure (TCLP). Minimum lamp life requirements; recycling collection requirements.</p> <p>European Union, Restriction on Hazardous Substances Directive, 2002/95/EC (RoHS): CFLs containing more than five milligrams of mercury cannot be sold throughout Europe. Revisions to the RoHS Directive have lowered the mercury limits for certain types of CFLs to 2.5 milligrams by 2013, www.responsiblepurchasing.org/publications/lampsfactsheet.pdf</p>	<p>ENERGY STAR, www.energystar.gov/?c=lighting.pr_lighting_landing</p> <p>Green Seal's Compact Fluorescent Lamps (CFLs) Standard, GS-05, www.greenseal.org/Portals/0/Documents/Standards/GS-5/GS-5Ed3-1_Compact_Fluorescent_Lamps_CFLs.pdf (no certified products at this time)</p> <p>US Green Building Council's LEED standards reference energy efficiency, mercury reduction and daylighting, www.usgbc.org</p>	<p>For CFLs, see ENERGY STAR Choose A Light Guide, www.energystar.gov/index.cfm?c=cfls.pr_cfls_guide</p> <p>SF Approved, City of San Francisco list of approved green products including lighting, www.sfapproved.org/</p> <p>For a list of mercury-containing lamp recyclers, visit www.almr.org, http://earth911.com/recycling/cfl/, EPA's website at www2.epa.gov/cfl, or look under options for Hazardous Waste at www.StopWaste.Org/Recycle</p> <p>For a list of local product resources, visit Build It Green, www.builditgreen.org/ and http://greenpointrated.com/products/</p> <p>Refer to StopWaste's Guide to Green Maintenance & Operations for action items, purchasing strategies and more resources for Lighting, www.stopwaste.org/EPP</p>
<p>Clothes Washers</p>	<p>Use ENERGY STAR qualified appliances. Most full-sized ENERGY STAR qualified washers use 15 gallons of water per load, compared to the 23 gallons used by a standard machine.</p> <p>Consortium for Energy Efficiency (CEE): Lists a Modified Energy Factor (MEF) and a Water Factor (WF) to help compare appliances. These guidelines are generally stronger than ENERGY STAR. (NOTE: CEE Specifications are currently being revised).</p> <p>Most ENERGY STAR qualified washers do not have a central agitator. They are available in either front-load or redesigned top-load design.</p>	<p>ENERGY STAR, www.energystar.gov/index.cfm?c=clotheswash.pr_clothes_washers</p> <p>Consortium for Energy Efficiency, Inc., http://library.cee1.org/sites/default/files/library/5927/CEE_CW_Spec_for_web_site.pdf</p> <p>GreenPoint Rated, http://greenpointrated.com/products/</p>	<p>EBMUD's (East Bay Municipal Utility District) Commercial and Residential Washer Rebate Program, www.ebmud.com/water-and-wastewater/water-conservation/commercial-clothes-washer-rebates, and www.ebmud.com/for-customers/for-residential-customers/conservation-rebates-and-incentives/high-efficiency-clothes-</p> <p>For products qualifying under CEE, visit http://library.cee1.org/content/qualifying-product-lists-residential-clothes-washers</p>
<p>Dishwashers</p>	<p>Use ENERGY STAR qualified appliances.</p> <p>CEE: Standard-size dishwasher uses no more than 4.25 gallons/cycle</p>	<p>ENERGY STAR, www.energystar.gov/certified-products/detail/dishwashers</p> <p>Consortium for Energy Efficiency (CEE), http://library.cee1.org/content/residential-dishwasher-specifications</p> <p>GreenPoint Rated, http://greenpointrated.com/products/</p>	<p>For products qualifying under CEE, visit http://library.cee1.org/content/qualifying-product-lists-residential-dishwashers</p>

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Refrigerators	<p>GreenPoint Rated: Select an ENERGY STAR®-qualified refrigerator that has less than 20 to 25 cubic feet of capacity (refrigerator and freezer).</p> <p>CEE: Tier 1 ENERGY STAR; Tier 2 ENERGY STAR + 5%; ENERGY STAR + 10%</p>	<p>Consortium for Energy Efficiency (CEE), http://library.cee1.org/sites/default/files/library/9563/refrig-spec_2.pdf</p> <p>ENERGY STAR, www.energystar.gov/certified-products/detail/refrigerators</p> <p>GreenPoint Rated, http://greenpointrated.com/products/</p>	<p>ENERGY STAR: For a list of qualifying models, visit www.energystar.gov.</p> <p>For products qualifying under CEE, visit http://library.cee1.org/content/qualifying-product-lists-residential-refrigerators</p>
Heating and cooling systems, commercial applications only	<p>Use ENERGY STAR qualified systems;</p> <p>Consortium for Energy Efficiency (CEE) Whole Building Performance and Energy Management Exploration provides detailed information about 50 commercial building energy management programs. The Consortium for High Efficiency Commercial Air Conditioning and Heat Pump (HECAC) Initiative maintains a national level, high performance specification for equipment.</p>	<p>ENERGY STAR, www.energystar.gov/index.cfm?c=heat_cool.pr_hvac</p> <p>Consortium for Energy Efficiency (CEE), 2012 Building Energy Management Programs and Field Assessments http://library.cee1.org/content/cee-2013-building-energy-management-programs-and-field-assessments/</p> <p>Consortium for Energy Efficiency (CEE), High Efficiency Commercial Air Conditioning and Heat Pump Initiative, http://library.cee1.org/content/consortium-energy-efficiency-cee-high-efficiency-commercial-air-conditioning-hecac-initiative/</p>	<p>For a list of local product resources, visit www.builditgreen.org and http://greenpointrated.com/products/</p> <p>Refer to StopWaste's Guide to Green Maintenance & Operations for action items, purchasing strategies and more resources for energy efficient appliances, www.stopwaste.org/EPP</p>
Paints	<p>GREENGUARD: Certified to meet UL 2818 Standard for Building Materials, Finishes and Furnishings</p> <p>EcoLogo: Certified to meet UL 2786 Architectural Surface Coatings Standard</p> <p>Green Seal: Certified to meet Green Seal's Paints and Coatings Standard (GS-11)</p> <p>Low-VOC paints and primers contain less than 50 grams/liter (g/l) of VOCs. Less than 5 g/l are classified as zero-VOC.</p>	<p>Green Seal's Paints and Coatings Standard, GS-11, www.greenseal.org/Portals/0/Documents/Standards/GS-11/GS-11_Ed3-1_Paints_and_Coatings.pdf</p> <p>GREENGUARD's UL 2818 Building Materials, Finishes and Furnishings Standard, www.ul.com/global/eng/pages/offering/businesses/environment/services/GGmark/</p> <p>EcoLogo's UL 2768 Architectural Surface Coatings Standard, UL/ECOLOGO Product Certification, www.ul.com/global/eng/pages/offering/businesses/environment/services/ELmark/#buildingmaterials</p> <p>South Coast Air Quality Management District (SCAQMD) Rule 1113, Architectural Coatings, latest rules, www.aqmd.gov/rules/reg/reg11_tofc.html</p>	<p>UL Environment/GREENGUARD and ECOLOGO Certified products are listed in this guide. http://productguide.ulenvironment.com/QuickSearch.aspx</p> <p>Master's Paint Institute (MPI) lists paints meeting its Green Performance Standard, www.specifygreen.com/APL/Introduction.html</p> <p>Refer to StopWaste's Guide to Green Maintenance & Operations for action items, purchasing strategies and more resources for paint, www.stopwaste.org/EPP</p> <p>For a list of local product resources, visit www.builditgreen.org/ and http://greenpointrated.com/products/</p>

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Paint, Recycled	<p>EPA: Consolidated and Reprocessed Latex Paint: 20% postconsumer content for white, light colors and 50-99% postconsumer content for dark colors of latex paint; Consolidated Latex Paint: 100% postconsumer content</p> <p>Green Seal: Certified to meet Green Seal's Recycled Latex Paint Standard (GS-43)</p>	<p>EPA's CPG, www.epa.gov/epawaste/conserve/tools/cpg/products/construction.htm#latexpaint</p> <p>Green Seal's Recycled Latex Paint Standard, GS-43, www.greenseal.org/Portals/0/Documents/Standards/GS-43/GS-43_Ed1-1_Recycled_Content_Latex_Paint.pdf</p>	<p>Public Contract Code (PCC) sections 12203 and 12209 require State agencies (including California State Universities) to ensure that at least 50 percent of the dollars spent on paint be spent on recycled paint with a recycled content consisting of at least 50 percent postconsumer paint, www.leginfo.ca.gov/cgi-bin/displaycode?section=pcc&group=12001-13000&file=12200-12217</p> <p>USDA BioPreferred Program list of USDA Certified Biobased Paint and Coatings, www.biopreferred.gov/bioPreferredCatalog/faces/jsp/catalogSubCategoryLanding.jsp</p>
Exit Signs	<p>Use ENERGY STAR qualified exit signs (operates on 5 watts or less per sign)</p> <p>Use LED lighting (about 2 watts) over incandescent or fluorescent lighting. Bulbs last up to 100,000 hours (or 10 years)</p>	<p>ENERGY STAR, www.energystar.gov/index.cfm?c=exit_signs.pr_exit_signs. EPA suspended the ENERGY STAR Exit Sign specification effective May 1, 2008. EPA Act 2005, minimum federal efficiency standard are equivalent to ENERGY STAR and reference ENERGY STAR version 2.0 specifications</p>	
Carpeting - Commercial	<p>CRI: Meets CRI's Green Label Plus programs</p> <p>SCS: Certified to meet NSF/ANSI 140 Sustainable Carpet Assessment Standard</p> <p>GREENGUARD: Certified to meet UL 2818 Building Materials, Finishes and Furnishings Standard</p> <p>USDA's BioPreferred: for woven, tufted, or knitted fiber and a backing system recommends 7% - Minimum Biobased Content</p>	<p>The Carpet and Rug Institute (CRI) Green Label Plus Program, www.carpet-rug.org/commercial-customers/green-building-and-the-environment/green-label-plus/index.cfm www.carpet-rug.org</p> <p>NSF/ANSI 140 for Sustainable Carpet Assessment - purchase standard through NSF bookstore: www.techstreet.com/nsf/searches/4203364</p> <p>GREENGUARD's UL 2818 Building Materials, Finishes and Furnishings Standard, www.ul.com/global/eng/pages/offering/businesses/environment/services/GGmark/</p> <p>USDA BioPreferred Program, www.biopreferred.gov</p>	<p>NSF/ANSI 140-Sustainable Carpet Assessment product and service listing, info.nsf.org/Certified/Sustain/sus_product_search.asp</p> <p>SCS Global Services' Certified Green Products Guide, www.scsglobalservices.com/certified-green-products-guide. SCS certifies to the NSF/ANSI 140 Sustainable Carpet Assessment Standard.</p> <p>UL Environment/GREENGUARD Sustainable Product Guide for certified carpet, http://productguide.ulenvironment.com/SearchResults.aspx?CertificationID=1&CategoryID=1&SubCategoryID=70</p> <p>Refer to StopWaste's Guide to Green Maintenance & Operations for action items, purchasing strategies and more resources for carpet, www.stopwaste.org/docs/EPP</p> <p>Alameda County Carpet Tile and Broadloom Model Bid Specifications, www.acgov.org/sustain/documents/modelbidlanguage-carpet.pdf and Technical Specifications, www.acgov.org/sustain/documents/techsp</p> <p>For a list of local product resources, visit Build It Green, www.builditgreen.org and http://greenpointrated.com/products/</p>

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Carpet Cushion	<p>CRI: Meets CRI's Green Label Plus programs.</p> <p>GREENGUARD: Certified to meet UL 2818 Building Materials, Finishes and Furnishings Standard</p> <p>EPA: Bonded Polyurethane, 15-50% postconsumer content (old carpet cushion); Jute, 40% postconsumer content (burlap); Rubber, 60-90% postconsumer content (tire rubber)</p>	<p>The Carpet and Rug Institute (CRI) Green Label Plus Program, www.carpet-rug.org/commercial-customers/green-building-and-the-environment/green-label-plus/cushion.cfm</p> <p>GREENGUARD's UL 2818 Building Materials, Finishes and Furnishings Standard, www.ul.com/global/eng/pages/offers/businesses/environment/services/GGmark/</p> <p>EPA's CPG, www.epa.gov/waste/conservation/tools/cpg/products/construction.htm#carpetcushion</p>	<p>UL Environment/GREENGUARD Sustainable Product Guide, http://productguide.ulenvironment.com/QuickSearch.aspx</p>
Floor Coverings (non-carpet)	<p>GREENGUARD: Certified to meet UL 2818 Building Materials, Finishes and Furnishings Standard</p> <p>SCS: Certified to meet NSF/ANSI 332 Resilient Flooring Standard and FloorScore certification standards. Tile to meet Green Squared certification standards.</p> <p>Select flooring with low indoor air emissions; avoid vinyl (PVC)</p>	<p>FloorScore program, developed by the Resilient Floor Covering Institute (RFCI) in conjunction with SCS Global Services, certifies for compliance with indoor air quality emission requirements adopted in California, www.scsglobalservices.com/floorscore</p> <p>Green Squared Certification, established by the Tile Council of North America (TCNA) under ANSI A138.1 for ceramic and glass tiles and installation materials, www.scsglobalservices.com/green-squared</p> <p>NSF/ANSI 332 Standard for Resilient Flooring including vinyl, linoleum and rubber flooring and associated products, www.scsglobalservices.com/certified-resilient-flooring</p> <p>GREENGUARD's UL 2818 Building Materials, Finishes and Furnishings Standard, www.ul.com/global/eng/pages/offers/businesses/environment/services/GGmark/</p>	<p>SCS Global Services' Certified Green Products Guide, www.scsglobalservices.com/certified-green-products-guide.</p> <p>NSF/ANSI 332 Sustainability Assessment for Resilient Floor Coverings product listing, nfo.nsf.org/Certified/Sustain/sus_product_search.asp</p> <p>UL Environment/GREENGUARD Sustainable Product Guide, http://productguide.ulenvironment.com/QuickSearch.aspx</p> <p>For a list of local product resources, visit www.builditgreen.org/ and http://greenpointrated.com/products/</p> <p>Refer to StopWaste's Guide to Green Maintenance & Operations for action items, purchasing strategies and more resources for flooring, www.stopwaste.org/EPP</p>
Structural Pest Control	<p>Select services that are certified by EcoWise Certified (developed in partnership with the Association of Bay Area Governments, the Bay Area Green Business Program and others). This program covers northern and southern California.</p>	<p>EcoWise Certified Standards for Integrated Pest Management Certification in Structural Pest Management, www.ecowisecertified.org/</p>	<p>Directory of Least Toxic Pest Control Products, or other publications from the Bio-Integral Resource Center, www.birc.org</p> <p>Model Bay Friendly Landscape Maintenance Specifications for Integrated Pest Management www.bayfriendlycoalition.org/download/bay_friendly_landscape_maintenance_final.pdf</p>

Guidelines for Buying Environmentally Preferable Products: Cleaning Products and Supplies

Product Category & Products	Environmental Attributes to Consider When Purchasing	Green Standard/Guidelines	Notes/Further Information
Janitorial Cleaners and Cleaning Services			
All Purpose Cleaner	<p>Green Seal: Certified to meet Green Seal's Cleaning Products for Industrial and Institutional Use Standard (GS-37)</p> <p>EcoLogo: Certified to meet UL 2759 Hard Service Cleaners Standard</p>	<p>Green Seal's Cleaning Products for Industrial and Institutional Use Standard, GS-37, www.greenseal.org/Portals/0/Documents/Standards/GS-37/GS-37_Ed7-1_Cleaning_Products_for_Industrial_and_Institutional_Use.pdf</p> <p>EcoLogo's Hard Surface Cleaners Standard, UL 2759, UL/ECOLOGO Product Certification, www.ul.com/global/eng/pages/offering/businesses/environment/services/ELmark/#cleaning</p>	<p>Refer to StopWaste's Fact Sheet on Environmentally Preferable Janitorial Cleaning Products for sample specifications and local resources, www.stopwaste.org/EPP</p>
Window Cleaner			
Bathroom Cleaner			
Cleaner/Degreasers	<p>Green Seal: Certified to meet Green Seal's Cleaning and Degreasing Agents Standard (GS-34)</p> <p>EcoLogo: Certified to meet UL 2759 Biologically-based Cleaning and Degreasing Compounds Standard</p>	<p>Green Seal's Cleaning and Degreasing Agents Standard, GS-34, www.greenseal.org/Portals/0/Documents/Standards/GS-34/GS-34_Ed2-1_Cleaning_and_Degreasing_Agents.pdf</p> <p>EcoLogo's Biologically-based Cleaning and Degreasing Compounds Standard, UL 2792, UL/ECOLOGO Product Certification, www.ul.com/global/eng/pages/offering/businesses/environment/services/ELmark/#cleaning</p>	<p>Refer to StopWaste's Fact Sheet on Environmentally Preferable Janitorial Cleaning Products for sample specifications and local resources, www.stopwaste.org/EPP</p>
Hand Cleaners: Liquid and Foam	<p>Green Seal: Certified to meet Green Seal's Hand Cleaners for Industrial and Institutional Use Standard (GS-41)</p> <p>EcoLogo: Certified to meet UL 2784 Hand Cleaners Standard; Certified to meet UL 2783 Instant Hand Antiseptics Standard</p>	<p>Green Seal's Hand Cleaners for Industrial and Institutional Use Standard, GS-41, www.greenseal.org/Portals/0/Documents/Standards/GS-34/GS-34_Ed2-1_Cleaning_and_Degreasing_Agents.pdf</p> <p>EcoLogo's UL 2784 Hand Cleaners Standard; UL 2783 Instant Hand Antiseptics Standard, UL/ECOLOGO Product Certification, www.ul.com/global/eng/pages/offering/businesses/environment/services/ELmark/#cleaning</p>	<p>Avoid the overuse of antibacterial agents, such as triclosan. See U.S. FDA article "FDA Taking Closer Look at 'Antibacterial' Soap", www.fda.gov/ForConsumers/ConsumerUpdates/ucm378393.htm and APUA article "Science of Resistance: Antibacterial Agents", www.tufts.edu/med/apua/about_issue/antibacterial_agents.shtml, for example.</p>
Carpet Cleaner	<p>Green Seal: Certified to meet Green Seal's Cleaning Products for Industrial and Institutional Use Standard (GS-37)</p> <p>EcoLogo: Certified to meet UL 2795 Carpet and Upholstery Cleaners Standard</p>	<p>Green Seal's Cleaning Products for Industrial and Institutional Use Standard, GS-37, www.greenseal.org/Portals/0/Documents/Standards/GS-37/GS-37_Ed7-1_Cleaning_Products_for_Industrial_and_Institutional_Use.pdf</p> <p>EcoLogo's UL 2795 Carpet and Upholstery Cleaners Standard, UL/ECOLOGO Product Certification, www.ul.com/global/eng/pages/offering/businesses/environment/services/ELmark/#cleaning</p>	

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Floor-Care Products: Finishes and Strippers	<p>Green Seal: Certified to meet Green Seal's Floor-Care Products for Industrial and Institutional Use Standard (GS-40)</p> <p>EcoLogo: Certified to meet UL 2777 Hard Floor Care Products Standard</p>	<p>Green Seal's Floor-Care Products for Industrial and Institutional Use Standard, GS-40, www.greenseal.org/Portals/0/Documents/Standards/GS-40/GS-40_Ed2-1_Floor-Care_Products_for_Industrial_and_Institutional_Use.pdf</p> <p>EcoLogo's UL 2777 Hard Floor Care Products Standard, UL/ECOLOGO Product Certification, www.ul.com/global/eng/pages/offerings/businesses/environment/services/ELmark/#cleaning</p>	
Laundry Care Products	<p>Green Seal: Certified to meet Green Seal's Laundry Care Products for Industrial and Institutional Use Standard (GS-51)</p> <p>EcoLogo: Certified to meet UL 2776 Liquid Laundry Detergent and Softeners Standard</p>	<p>Green Seal's Laundry Care Products for Industrial and Institutional Use Standard, GS-51, www.greenseal.org/Portals/0/Documents/Standards/GS-51%202014/GS-51_Ed1-2_Laundry_Care_Products_Institutional.pdf</p> <p>EcoLogo's UL 2776 Liquid Laundry Detergent and Softeners Standard, UL/ECOLOGO Product Certification, www.ul.com/global/eng/pages/offerings/businesses/environment/services/ELmark/#cleaning</p>	
Specialty Cleaning Products: e.g. Specialty Surfaces, Graffiti Removers, Odor Removers	<p>Green Seal: Certified to meet Green Seal's Specialty Cleaning Products for Industrial and Institutional Use Standard (GS-53)</p>	<p>Green Seal's Specialty Cleaning Products for Industrial and Institutional Use Standard, GS-53, www.greenseal.org/Portals/0/Documents/Standards/GS-53/GS-53_Ed2-1_Specialty_Cleaning_Products_for_Industrial_and_Institutional_Use.pdf</p>	
Disinfectants	<p>EcoLogo: Certified to meet UL 2794 Disinfectants and Disinfectant Cleaners Standard</p>	<p>EcoLogo's UL 2794 Disinfectants and Disinfectant Cleaners Standard, UL/ECOLOGO Product Certification, Criteria, www.ul.com/global/eng/pages/offerings/businesses/environment/services/ELmark/#cleaning</p>	<p>Products must be registered with the US EPA as a disinfectant.</p>
Vacuums	<p>Meet Carpet and Rug Institute's Green Label Program for soil removal, dust containment, and carpet fiber retention</p>	<p>Carpet and Rug Institute's Green Label Program list of certified vacuums, www.carpet-rug.org/commercial-customers/cleaning-and-maintenance/seal-of-approval-products/vacuums.cfm</p>	

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Plastic Trash Bags	Manufacturer must meet the recycled content manufacturing requirements of the State of CA	<p>Manufacturing Guideline, State of CA Public Resources Code 42290-42297, www.calrecycle.ca.gov/BuyRecycled/Trash Bags/</p> <p>EPA's CPG: 10-100% postconsumer content, www.epa.gov/epawaste/conservation/tools/cpg/products/nonpaperoffice.htm#trashbag</p>	Refer to StopWaste's "Environmentally Preferable Nonpaper Office Products" Fact Sheet for sample specifications and resources, www.stopwaste.org/EPP
Janitorial Cleaning Services	<p>Green Seal: Certified to meet Commercial and Institutional Cleaning Services Standard (GS-42)</p> <p>Use Green Seal certified cleaners listed under GS-37, GS-40 and GS-41; use recycled paper products and can liners; use vacuums certified by the Carpet and Rug Institute; use microfiber cloths/mops to reduce water consumption</p> <p>Certified as a Bay Area Green Business</p>	<p>Green Seal's Commercial and Institutional Cleaning Services Standard, GS-42, www.greenseal.org/Portals/0/Documents/Standards/GS-42/GS-42_Ed2-1_Commercial_and_Institutional_Cleaning_Services.pdf</p> <p>Bay Area Green Business Program, www.greenbiz.ca.gov</p>	Refer to StopWaste's Environmental Preferable Janitorial Cleaning Products Fact Sheet for sample specifications and local resources, www.stopwaste.org/EPP

Guidelines for Buying Environmentally Preferable Products: Building Construction

Product Category & Products	Environmental Attributes to Consider When Purchasing	Green Standard/Guidelines	Notes/Further Information
Building Construction Products			
<p>Building Insulation</p>	<p>GREENGUARD: Certified to meet UL 2818 Building Materials, Finishes and Furnishings Standard</p> <p>Emits undetectable or ultra-low amounts of volatile organic compounds (VOCs) including formaldehyde and has at least 30% postconsumer recycled content.</p> <p>EPA: Cellulose Insulation, 75% postconsumer paper; Perlite Composite Board: 23% postconsumer paper; guidelines also available for fiberglass, rigid foam, rock wool, plastic batt, etc.</p>	<p>California Department of Health's Special Environmental Requirements, Section 01350, www.calrecycle.ca.gov/greenbuilding/specs/section01350/#Criteria_</p> <p>GREENGUARD's UL 2818 Building Materials, Finishes and Furnishings Standard, www.ul.com/global/eng/pages/offering/s/businesses/environment/services/GGmark/</p> <p>EPA's CPG, www.epa.gov/waste/conservation/tools/cpg/products/construction.htm#building</p>	<p>Refer to StopWaste's "Greener Options for Fiber Glass & Cellulose Insulation" Brochure for a list of products, www.stopwaste.org/docs/stopwaste_insulation_brochure_may_2012.pdf</p> <p>SCS Indoor Advantage Gold + Formaldehyde Free and SCS Indoor Advantage Gold - Building Materials Certification, www.scsglobalservices.com/certified-indoor-air-quality</p> <p>SCS Recycled Content Certification, www.scsglobalservices.com/recycled-content-certification</p> <p>UL Environmental Claim Validation for Recycled Content and Formaldehyde Free Claim Validations, www.ul.com/global/eng/pages/offering/s/businesses/environment/services/ECVmark/</p> <p>UL Environment/GREENGUARD Sustainable Products Guide, http://productguide.ulenvironment.com/QuickSearch.aspx</p> <p>SCS Global Service's Certified Green Products Guide: www.scsglobalservices.com/certified-green-products-guide</p> <p>For a list of local product resources, visit www.builditgreen.org and http://greenpointrated.com/products/</p>
<p>Concrete, Cement</p>	<p>Use fly ash to replace a percentage of portland cement.</p>	<p>EPA's CPG, www.epa.gov/epawaste/conservation/tools/cpg/products/construction.htm#cement</p>	<p>Build It Green's Green Product Directory encourages displacing up to 30%-50% of cement with fly ash, www.builditgreen.org and http://greenpointrated.com/products/</p>

Guidelines for Buying Environmentally Preferable Products: Building Construction

Product Category & Products	Environmental Attributes to Consider When Purchasing	Green Standard/Guidelines	Notes/Further Information
Adhesives: Flooring, Construction and Wood/Tile/Other	<p>Green Seal: Certified to meet Green Seal's Adhesives for Commercial Use Standard (GS-36)</p> <p>GREENGUARD: Certified to meet UL 2818 Building Materials, Finishes and Furnishings Standard</p> <p>Meet the South Coast Air Quality Management District Rule 1168 limiting volatile organic compounds (VOCs) for adhesive and sealant products.</p> <p>Meet the criteria by the Collaborative for High Performance Schools (CHPS) for low-emitting materials. Materials must meet the requirements of the California Department of Health's Special Environmental Requirements, Section 01350 AND be certified by an independent testing laboratory, such as GREENGUARD for Low-Emitting Materials or SCS Global Services' Indoor Advantage Gold and FloorScore program or the Carpet and Rug Institute's Green Label Plus.</p>	<p>South Coast Air Quality Management District, www.aqmd.gov/rules/reg/reg11/r1113.pdf</p> <p>Green Seal's Adhesives for Commercial Use Standard, GS-36, www.greenseal.org/Portals/0/Documents/Standards/GS-36/GS-36Ed2-1_Adhesives_for_Commercial_Use.pdf</p> <p>CHPS, www.chps.net/dev/Drupal/self-certified-low-emitting-products</p> <p>GREENGUARD's UL 2818 Building Materials, Finishes and Furnishings Standard, www.ul.com/global/eng/pages/offering/businesses/environment/services/GGmark/</p> <p>California Department of Health's Special Environmental Requirements, Section 01350, www.calrecycle.ca.gov/greenbuilding/specs/section01350/#Criteria_</p>	<p>FloorScore program, developed by the Resilient Floor Covering Institute (RFCI) in conjunction with SCS Global Services, certifies for compliance with indoor air quality emission requirements adopted in California, www.scsglobalservices.com/floorscore</p> <p>SCS Global Service's Certified Green Products Guide: www.scsglobalservices.com/certified-green-products-guide</p> <p>UL Environment/GREENGUARD Sustainable Product Guide, http://productguide.ulenvironment.com/QuickSearch.aspx</p>
Patio Blocks (used in garden walkways and trails)	<p>EPA: Rubber: 90-100% postconsumer content</p> <p>EPA: Plastic: no postconsumer content listed</p>	<p>EPA's CPG, www.epa.gov/epawaste/conserves/tools/cpg/products/construction.htm#floortiles</p>	<p>EPA Buy-Recycled Construction Products Fact Sheet, www.epa.gov/waste/conserves/tools/cpg/pdf/construct.pdf</p>
Shower and Restroom Dividers/Partitions	<p>EPA: Plastic: 20-100% postconsumer</p> <p>EPA: Steel: usually contains postconsumer content</p>	<p>EPA's CPG, www.epa.gov/waste/conserves/tools/cpg/products/construction.htm#partitions</p>	<p>For a list of local product resources, visit www.builditgreen.org and Build It Green's Product Directory at http://greenpointrated.com/products/</p>
Floor Tiles (heavy duty, commercial use)	<p>EPA: Rubber, 90-100 postconsumer content</p>	<p>EPA's CPG, www.epa.gov/waste/conserves/tools/cpg/products/construction.htm#floortiles</p>	<p>EPA's Fact Sheet on Buying Recycled Construction Products, www.epa.gov/epawaste/conserves/tools/cpg/pdf/construct.pdf</p>
Wood Products	<p>Certified as sustainably harvested by a comprehensive, performance based certification system, such as the Forest Stewardship Council (FSC).</p> <p>Consider use of plant-based (non-wood) products.</p> <p>Use composite wood (plywood, medium-density fiberboard or MDF) that has no added urea formaldehyde.</p>	<p>Forest Stewardship Council standards and certification, www.fscus.org</p>	

Guidelines for Buying Environmentally Preferable Products: Building Construction

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Modular Threshold Ramps	EPA: Rubber: 100% postconsumer content EPA: Aluminum: 10% total recovered content EPA: Steel: usually contains recycled content	EPA's CPG, www.epa.gov/waste/conserves/tools/cpg/products/construction.htm#ramps	Modular threshold ramps are used to modify door thresholds and other small rises to remove barriers, particularly in regards to access by people with disabilities.
Nonpressure Pipe	EPA: HDPE, 100% postconsumer content; PVC, 5-15% postconsumer content (Steel is commonly recycled)	EPA CPG, www.epa.gov/waste/conserves/tools/cpg/products/construction.htm#pipe	Nonpressure pipe is used throughout the United States as drainage pipe and conduit in construction, communications, municipal, industrial, agricultural, and mining applications.
Ceiling Tiles	Recycled content ceiling tiles are readily available GREENGUARD: Certified to meet UL 2818 Building Materials, Finishes and Furnishings Standard	GREENGUARD's UL 2818 Building Materials, Finishes and Furnishings Standard, www.ul.com/global/eng/pages/offering/s/businesses/environment/services/Gmark/	UL Environment/GREENGUARD Sustainable Product Guide, http://productguide.ulenvironment.com/QuickSearch.aspx
Roof Coatings	Green Seal: Reflective roof coating certified to meet Green Seal's Paints and Coatings Standard (GS-11) USDA BioPreferred Program: 20% minimum biobased content	Green Seal's Paints and Coatings Standard, GS-11, www.greenseal.org/Portals/0/Documents/Standards/GS-11/GS-11_Ed3-1_Paints_and_Coatings.pdf USDA BioPreferred Program, www.biopreferred.gov	BioPreferred: These are coatings formulated for use in commercial roof deck systems to provide a single-coat monolith coating system
Roofing Materials	Refer to ENERGY STAR Qualified Roofing Products EPA: Fiber or Fiber Composite, 50-100% postconsumer content; Rubber, 12-100% postconsumer content; Plastic or Plastic Rubber Composite, 100% postconsumer content (Aluminum and steel are commonly recycled)	ENERGY STAR Qualified Roofing Products, www.energystar.gov/certified-products/detail/roof_products EPA's CPG, www.epa.gov/waste/conserves/tools/cpg/products/construction.htm#roofing	For a list of local product resources, visit www.builditgreen.org/ and Build It Green's Product Directory at http://greenpointrated.com/products/ EPA Cool Roofs www.epa.gov/hiri/mitigation/coolroofs.htm

Guidelines for Buying Environmentally Preferable Products: Office Furnishings

Product Category & Products	Environmental Attributes to Consider When Purchasing	Green Standard/Guidelines	Notes/Further Information
Office Furnishings			
Office Furniture, Casework	<p>Attributes to Consider: Flame-retardant free furniture that is compliant with the California flammability standard for upholstered furniture TB117 - 2013, formaldehyde-free, low or no VOCs, recycled content, no CFCs or HCFCs in foam production, no halogenated organic flame retardants, no antimicrobials, no PVC, no perfluorinated compounds, no heavy metals (lead, mercury), energy efficient task lighting and take back/recycling/reuse options.</p> <p>CA Section 01350 requires the State to consider building materials that contain low VOCs, no HFCs or HCFCs in foam production, energy efficient task lighting and limits on emissions of phthalates, aldehydes and formaldehyde.</p> <p>EPA: Plastic furniture component, HDPE: 70-75% postconsumer content</p> <p>EPA: Fabric, PET: 100% postconsumer content</p> <p>EPA: remanufactured or refurbished: 25-75% postconsumer content</p> <p>EPA: Particleboard/fiberboard: 80-100% total recovered materials, may include other cellulosic materials (wheat straw, paper, bagasse) (Not recommending CCA-treated wood [CCA is chrominated copper arsenate] as recovered material in office furniture)</p>	<p>Requirements in CA Section 01350 used by the State of CA, www.calrecycle.ca.gov/greenbuilding/sp/ecs/section01350</p> <p>The California Bureau of Electronic and Appliance Repair, Home Furnishings and Thermal Insulation (BEARHFTI) and Department of Consumer Affairs standard TB117-2013 for testing upholstered furniture flammability, www.bearhfti.ca.gov/about_us/tb117_2013.pdf</p> <p>GREENGUARD Gold Certification Standard for Chemical Emissions for Building Materials, Finishes and Furniture, UL Environment Standard 2818, certifies to Section 01350, www.ul.com/global/eng/pages/offerings/businesses/environment/services/GGmark</p> <p>EPA's CPG, www.epa.gov/wastes/conserves/tools/cpg/products/nonpaperoffice.htm#furniture</p> <p>ANSI/BIFMA X7.1-2011 Standard for Formaldehyde and TVOC Emissions of Low-emitting Office Furniture Systems and Seating, and ANSI/BIFMA M7.1-2011 Standard Test Method for Determining VOC Emissions from Office Furniture Systems, Components and Seating, www.bifma.org/?page=standardsoverview (download of standard is fee-based)</p> <p>ANSI/BIFMA e3 Furniture Sustainability Standard, www.bifma.org/?page=e3standard (download of standard is fee-based)</p>	<p>The California Bureau of Electronic and Appliance Repair, Home Furnishings and Thermal Insulation (BEARHFTI) and Department of Consumer Affairs standard TB117-2013 for testing upholstered furniture flammability replaces TB117. The new standard uses a smoldering resistance test for cover fabrics and filling materials instead of open flame testing which allows manufacturers to greatly reduce or eliminate the use of flame-retardant chemicals. On or before January 1, 2015 manufacturers will be required to meet the new requirements, www.bearhfti.ca.gov/about_us/tb117_2013.pdf</p> <p>State of California, Department of General Services specifications for Environmentally Preferable Modular Office Systems, www.calrecycle.ca.gov/GreenBuilding/Specs/Furniture/</p> <p>Refer to BIFMA level@Third-party Certification Program for products certified to ANSI/BIFMA e3 Furniture Sustainability Standard, http://products.levelcertified.org/</p> <p>Refer to SCS Global Services' Certified Green Products Guide, www.scsglobalservices.com/certified-green-products-guide. SCS certifies to the ANSI/BIFMA e3 Furniture Sustainability Standard.</p> <p>Refer to UL Environment's Sustainable Product Guide for certified furniture products, including GREENGUARD, http://productguide.ulenvironment.com/SearchResults.aspx?CategoryID=21</p> <p>Refer to StopWaste's Guide to Green Maintenance & Operations for action items, purchasing strategies and more resources, www.stopwaste.org/EPP</p>

Guidelines for Buying Environmentally Preferable Products: Food Service

Product Category & Products	Environmental Attributes to Consider When Purchasing	Green Standard/Guidelines	Notes/Further Information
Food Service Products			
<p>Food Service Ware -</p> <p style="padding-left: 20px;">Rigid Containers, Hinged or Two-Part</p> <p style="padding-left: 20px;">Plates and Bowls</p>	<p>Green Seal: Certified to meet Green Seal's Food Service Packaging Standard (GS-35, Part A). Environmental and health requirements include recycled content, wood fiber, volume-to-weight, compostability and toxics in packaging and inks.</p> <p>Reusable, compostable or made from recycled fibers; if compostable, designed to disintegrate and biodegrade quickly and safely when composted in a commercial or municipal facility (meet ASTM D6400).</p>	<p>Green Seal's Food Service Packaging Standard, GS-35, www.greenseal.org/Portals/0/Documents/Standards/GS-35/GS-35Ed1-1_Food_Service_Packaging.pdf</p> <p>ASTM D6400 - 12, Standard Specification for Labeling of Plastics Designed to be Aerobically Composted in Municipal or Industrial Facilities, available for purchase at www.astm.org/Standards/D6400.htm</p>	<p>The San Francisco Department of the Environment maintains this list of distributors of compostable and recyclable products, such as plates, cutlery, to-go containers, and bags. Includes distributors' contact information, www.sfenvironment.org/sites/default/files/fliers/files/sfe_zw_vendors_bags_fsw_0.pdf</p> <p>Products certified compostable by the Biodegradable Products Institute (BPI), www.bpiworld.org</p>
<p>Food Service Ware -</p> <p style="padding-left: 20px;">Cups, Hot</p> <p style="padding-left: 20px;">Cups, Cold</p>	<p>Reusable, compostable or made from recycled fibers.</p> <p>Ask for a monetary savings incentive for any employee who uses their personal coffee mug or drinking glass. Provide for the purchase of reusable mugs for participation in the discount rate.</p> <p>Compostable: Certified to meet ASTM D6400 or D6868 by the Biodegradable Products Institute (BPI) or other party and designed to disintegrate and biodegrade quickly and safely when composted in a commercial or municipal facility.</p>	<p>Compostable guidelines from the Biodegradable Products Institute, www.bpiworld.org</p> <p>ASTM D6400 - 12, Standard Specification for Labeling of Plastics Designed to be Aerobically Composted in Municipal or Industrial Facilities, available for purchase at www.astm.org/Standards/D6400.htm</p> <p>ASTM D6868 - 11 Standard Specification for Labeling of End Items that Incorporate Plastics and Polymers as Coatings or Additives with Paper and Other Substrates Designed to be Aerobically Composted in Municipal or Industrial Facilities, available for purchase at www.astm.org/Standards/D6868.htm</p>	<p>The San Francisco Department of the Environment maintains this list of distributors of compostable and recyclable products, such as plates, cutlery, to-go containers, and bags. Includes distributors' contact information, www.sfenvironment.org/sites/default/files/fliers/files/sfe_zw_vendors_bags_fsw_0.pdf</p> <p>Products certified compostable by the Biodegradable Products Institute (BPI), www.bpiworld.org</p>
<p>Food Service Ware -</p> <p style="padding-left: 20px;">Cutlery</p>	<p>Reusable.</p> <p>Compostable: Certified to meet ASTM D6400 or D6868 by the Biodegradable Products Institute (BPI) or other party and designed to disintegrate and biodegrade quickly and safely when composted in a commercial or municipal facility.</p>	<p>Compostable guidelines from the Biodegradable Products Institute, www.bpiworld.org</p> <p>ASTM D6400 - 12, Standard Specification for Labeling of Plastics Designed to be Aerobically Composted in Municipal or Industrial Facilities, available for purchase at www.astm.org/Standards/D6400.htm</p> <p>ASTM D6868 - 11 Standard Specification for Labeling of End Items that Incorporate Plastics and Polymers as Coatings or Additives with Paper and Other Substrates Designed to be Aerobically Composted in Municipal or Industrial Facilities, available for purchase at www.astm.org/Standards/D6868.htm</p>	<p>Products certified compostable by the Biodegradable Products Institute (BPI), www.bpiworld.org</p> <p>The San Francisco Department of the Environment maintains this list of distributors of compostable and recyclable products, such as plates, cutlery, to-go containers, and bags. Includes distributors' contact information, www.sfenvironment.org/sites/default/files/fliers/files/sfe_zw_vendors_bags_fsw_0.pdf</p>

Guidelines for Buying Environmentally Preferable Products: Food Service

Product Category & Products	Environmental Attributes to Consider When Purchasing	Green Standard/Guidelines	Notes/Further Information
Food Service Ware - Bags	<p>Reusable.</p> <p>Compostable: Certified to meet ASTM D6400 or D6868 by the Biodegradable Products Institute (BPI) or other party and designed to disintegrate and biodegrade quickly and safely when composted in a commercial or municipal facility.</p> <p>Plant based resins preferred over petroleum feedstock.</p> <p>No phthalates (plasticizers that soften plastic).</p>	<p>Compostable guidelines from the Biodegradable Products Institute, www.bpiworld.org</p> <p>ASTM D6400 - 12, Standard Specification for Labeling of Plastics Designed to be Aerobically Composted in Municipal or Industrial Facilities, available for purchase at www.astm.org/Standards/D6400.htm</p> <p>ASTM D6868 - 11 Standard Specification for Labeling of End Items that Incorporate Plastics and Polymers as Coatings or Additives with Paper and Other Substrates Designed to be Aerobically Composted in Municipal or Industrial Facilities, available for purchase at www.astm.org/Standards/D6868.htm</p>	<p>Products certified compostable by the Biodegradable Products Institute (BPI), www.bpiworld.org</p> <p>The San Francisco Department of the Environment maintains this list of distributors of compostable and recyclable products, such as plates, cutlery, to-go containers, and bags. Includes distributors' contact information, www.sfenvironment.org/sites/default/files/fliers/files/sfe_zw_vendors_bags_fsw_0.pdf</p>
Coffee Filters	Use unbleached or reusable filters.		
Low-flow pre-rinse spray valves	Flow rate of 1.6 gallons per minute or less.	Food Service Technology Center, www.fishnick.com/equipment/sprayvalves	<p>For a cost calculator measuring before and after water savings, see www.fishnick.com/savewater/tools/watercalculator</p> <p>For more information, visit the California Urban Water Conservation Council at www.cuwcc.org/Resources/ProductInformation/CommercialFoodService/Pre-RinseSprayValves%28PRSVs%29.aspx</p>
Appliances	Replace or purchase commercial appliances with ENERGY STAR models.	ENERGY STAR not available for all products/sizes. Check www.energystar.gov for list of qualifying models.	<p>The Federal Energy Management Program (FEMP) lists energy efficient appliances, http://energy.gov/eere/femp/energy-efficient-product-procurement</p> <p>The Food Service Technology Center provides resources on equipment, design, and water and energy saving appliances, www.fishnick.com</p>
Vending Machines	<p>Consider snacks and beverages that are healthier (reduced fat and sugar).</p> <p>For refrigerated vending machines, select new or rebuilt ENERGY STAR-qualified.</p>	ENERGY STAR, www.energystar.gov/certified-products/detail/vending_machines?fuseaction=find_a_product.showProductGroup&pgw_code=VMC	Alameda County General Services Agency specified to turn off lights in machines to reduce energy use. View environmental bid specifications excerpt at www.acgov.org/sustain/documents/VendingMachinesBid_Excerpt.pdf

**Guidelines for Buying Environmentally Preferable Products:
Food Service**

Product Category & Products	Environmental Attributes to Consider When Purchasing	Green Standard/Guidelines	Notes/Further Information
Restaurants and Food Services	<p>Green Seal: Certified to meet Restaurants and Food Services Standard (GS-55). The requirements cover purchase of environmentally responsible food, beverages and supplies; waste reduction; management of resources; training and communication; and continuous improvement.</p> <p>Certified as a Bay Area Green Business.</p>	<p>Green Seal's Restaurants and Food Services Standard, GS-55, www.greenseal.org/Portals/0/Documents/Standards/GS-55/GS-55_Ed1-0_Restaurants_and_Food_Services.pdf</p> <p>Bay Area Green Business Program, www.greenbiz.ca.gov</p>	

Guidelines for Buying Environmentally Preferable Products: Roads and Transportation

Product Category & Products	Environmental Attributes to Consider When Purchasing	Green Standard/Guidelines	Notes/Further Information
Roads & Transportation			
Signs	EPA: Plastic sign, post: 80-100% postconsumer content	EPA's CPG, www.epa.gov/epawaste/conserves/tools/cpg/products/miscellaneous.htm#signage	Refer to StopWaste's "Environmentally Preferable Traffic Control Products" Fact Sheet for sample specifications and local resources, www.stopwaste.org/EPP
Parking Stops	EPA: Plastic or Rubber: 100% postconsumer content Concrete	EPA's CPG, www.epa.gov/epawaste/conserves/tools/cpg/products/transportation.htm#stops	
Traffic Cones	EPA: Plastic (PVC, LDPE): 50-100% total recycled content Crumb rubber: 50-100% total recycled content	EPA's CPG, www.epa.gov/epawaste/conserves/tools/cpg/products/transportation.htm#cones (If available, non-PVC plastic suggested)	
Traffic Barricades	EPA: Plastic: 80-100% postconsumer content	EPA's CPG, www.epa.gov/epawaste/conserves/tools/cpg/products/transportation.htm#barricades	
Delineators	EPA: Plastic: 25-95% postconsumer content Rubber base: 100% postconsumer content	EPA's CPG, www.epa.gov/epawaste/conserves/tools/cpg/products/transportation.htm#delineators	
Flexible Delineators	EPA: Plastic: 25-85% postconsumer content		
Channelizers	EPA: Plastic: 25-95% postconsumer content Rubber base: 100% postconsumer content		

Guidelines for Buying Environmentally Preferable Products: Roads and Transportation

Product Category & Products	Environmental Attributes to Consider When Purchasing	Green Standard/Guidelines	Notes/Further Information
Traffic Paint	Waterborne traffic- and zone-marking paints with ≤ 100 g/l VOCs (i.e., SCAQMD-compliant); lead and chromium free, and when dry, shall not contain any hazardous materials at levels that would cause the paint to be classified as a hazardous waste under Title 22, Division 4.5 of the California Code of Regulations.	<p>South Coast Air Quality Management District Rule 1113 limits VOC's to 100 g/L effective 9/6/13, www.aqmd.gov/rules/reg/reg11/r1113.pdf</p> <p>The State of California's Contract and Specifications for Rapid Dry Waterborne Traffic Line Paint, www.dgs.ca.gov/buyinggreen/Home/BuyersMain/Transportation/TrafficStripesPavementMarkings.aspx</p> <p>The Master Painters Institute Green Performance Standards, GPS-1 (2012) and GPS-2 (2012) for Paints and Coatings, www.paintinfo.com/GPS/GPS-01%20GPS-2%20Oct%202012.pdf</p>	<p>Refer to StopWaste's "Environmentally Preferable Transportation Products" Fact Sheet for sample specifications and local resources, www.stopwaste.org/EPP</p> <p>Responsible Purchasing Network, "Green Purchasing Best Practices: Traffic Paint", www.responsiblepurchasing.org/purchasing_guides/traffic_paint/naspo_rpn_traffic_paint_purchasing_guide.pdf</p> <p>Master Painters Institute Green Approved Products List for Latex Traffic Marking Paint, www.specifygreen.com/APL/MpiNumber.asp?ID=97000</p> <p>INFORM's Public Works & Vehicle Maintenance Fact Sheet, www.informinc.org/fspubworks.pdf</p> <p>Department of Defense Parking Lot Project, www.epa.gov/opptintr/epp/pubs/odfct.pdf</p>
Traffic Lights	Minimum federal efficiency standards for traffic signals are at the same level as the ENERGY STAR specification. All traffic signals manufactured on or after January 1, 2006 must meet these criteria.	Information about the minimum federal efficiency standard for traffic signals and the ENERGY STAR specification, www.energystar.gov/index.cfm?c=traffic.p_traffic_signals . The specification is based on a low energy requirement and conformance to the minimum performance requirements of the appropriate Institute for Transportation Engineers (ITE) specification.	Traffic signals that have earned the ENERGY STAR use high efficiency light emitting diode (LED) technology.
Asphalt Concrete	Use reclaimed, reground or rubberized asphalt concrete, when practicable. See detailed products below.		Build It Green's Green Product Directory encourages displacing up to 50% of cement with fly ash, http://greenpointrated.com/products/
Rubberized Hot Mix Asphalt	<p>Use crumb rubber in asphalt road applications.</p> <p>Rubberized Asphalt Concrete (RAC) can be used to reduced the thickness of an overlay by as much as half compared to conventional asphalt overlays. Using RAC saved \$36,240 on a Southern California project requiring a 4-inch overlay of conventional concrete.</p> <p>A two-inch-thick resurfacing project uses over 2,000 scrap tires per lane mile.</p>	Refer to Caltrans 2010 Standard Specifications 1.02D(3) (Crumb Rubber Modifier), www.dot.ca.gov/hq/esc/oe/construction_standards.html	CalRecycle Rubberized Asphalt Concrete, www.calrecycle.ca.gov/tires/RAC/

Guidelines for Buying Environmentally Preferable Products: Roads and Transportation

Product Category & Products	Environmental Attributes to Consider When Purchasing	Green Standard/Guidelines	Notes/Further Information
Aggregate Base	Caltrans: " <i>Class 2, Class 3 Bases</i> : Aggregate may include up to 100 percent of any combination of materials processed from reclaimed asphalt concrete, portland cement concrete, lean concrete base, cement treated base or a combination of any of these materials."	Caltrans allows up to 100% reclaimed materials in aggregate base Class 2 and 3, and in aggregate subbase Class 1, Class 2, Class 3, and Class 4, as specified in the 2010 Standard Specifications, www.dot.ca.gov/hq/esc/oe/construction_standards.html or visit www.calrecycle.ca.gov/ConDemo/Specs/CaltransAgg.htm#2006_Standard	
Aggregate Subbase	Caltrans: " <i>Class 1, Class 2, Class 3 and Class 4 Aggregate Subbases</i> : Aggregate may include up to 100 percent of any combination of materials processed from reclaimed asphalt concrete, portland cement concrete, lean concrete base, cement treated base or a combination of any of these materials."	Caltrans allows the use of processed glass for some base and subbase applications specified in Standard Special Provisions, Sections 25 and 26 in Division IV, updated in February 2007, www.dot.ca.gov/hq/esc/oe/construction_standards.html	
Tire Derived Aggregate	Tire derived aggregate (TDA) is made up of shredded tires and is used in many public works projects (retaining walls, drainage layers, lightweight conventional fill, landfill gas collection) and is the second largest use of tires in the US.	CalRecycle Tire-Derived Aggregate, www.calrecycle.ca.gov/tires/tda	For more information, see www.calrecycle.ca.gov/tires/tda and www.calrecycle.ca.gov/TIRES/Products/default.htm
Portland Cement Concrete (PCC)	Reclaimed concrete material (RCM) can be used in PCC pavements. Many types of general bulk fills include bank protection, base or fill for drainage structures, road construction, noise barriers and embankments. Screened crushed aggregates can be used for new concrete for pavements, shoulders, median barriers, sidewalks, curbs and gutters, bridge foundations, structural grade concrete, soil-cement pavement bases, lean-concrete or econo-crete bases and bituminous concrete. As a stormwater management tool, porous concrete may be an option for reducing stormwater runoff.		For more information on using recycled aggregates in PCC, visit www.cement.org/docs/default-source/th-paving-pdfs/sustainability/recycled-concrete-pca-logo.pdf
Reclaimed Asphalt Pavement (RAP)	Reclaimed asphalt pavement (RAP) is used as aggregate in cold recycling of asphalt mixtures. It can be used as granular base or subbase material in virtually all pavement types, including paved and unpaved roadways, parking areas, bicycle paths, gravel road rehabilitation, shoulders, residential driveways, trench backfill, engineered fill, pipe bedding, and culvert backfill. Hot mix asphalt can be manufactured using RAP as substitute for virgin aggregate. In addition the old binder substitutes for virgin (new) binder.	Caltrans 2010 Standard Specifications, Section 39, "Hot Mix Asphalt" includes RAP requirements. Up to 15% can be used in Caltrans' projects, www.dot.ca.gov/hq/esc/oe/construction_standards.html	For more information on RAP, visit, www.fhwa.dot.gov/publications/research/infrastructure/pavements/11057/11057.pdf For more information on pervious concrete see www.perviouspavement.org/
Sidewalks	EPA: Concrete: Recycled content Rubber: 95-100% postconsumer content		

Guidelines for Buying Environmentally Preferable Products: Roads and Transportation

Product Category & Products	Environmental Attributes to Consider When Purchasing	Green Standard/Guidelines	Notes/Further Information
Flowable Fill	Use with coal fly ash and/or ferrous foundry sands for backfill and other fill applications	EPA's CPG, www.epa.gov/waste/conservation/tools/cpg/products/construction.htm#flowablefill	
Railroad grade crossing surfaces	EPA: Concrete: 10-15% coal fly ash total content Rubber: 85-95% tire rubber total content Wood: 90-97% wood or composite postconsumer content Plastic: 85-95% plastic or composite postconsumer content Steel: usually contains recycled content	EPA's CPG, www.epa.gov/waste/conservation/tools/cpg/products/construction.htm#railroad	

Guidelines for Buying Environmentally Preferable Products: Vehicle Products

Product Category & Products	Environmental Attributes to Consider When Purchasing	Green Standard/Guidelines	Notes/Further Information
Vehicle & Automotive Maintenance			
Auto Repair Services	BAGBP: Use aqueous-based sink or parts washer instead of petroleum based solvents. Order fluids in bulk instead of individual containers. Replace spray cans with brake cleaning sinks or refillable spray containers. Eliminate unnecessary car washing and prevent soapy water from going into storm drains. Use energy conserving lights and install timers and motion sensors to shut off lights. Use squeegee and dust pan or an oil mop instead of absorbents. Minimize liquids used and discharged.	Bay Area Green Business program (BAGBP) certifies Automotive Services as a Green Business, www.greenbiz.ca.gov	
Tires	Procure retreading services for used tire casings; procure tires from both vendors of tires and of retreads.	EPA's CPG, www.epa.gov/epawaste/conserve/tools/cpg/products/vehicular.htm#tires	
Lubricating Oils: Motor Oils Hydraulic Fluids	The State of CA requires local agencies to purchase re-refined motor oil and lubricants certified by the API for use in vehicles and equipment, as appropriate for use. EPA recommends the highest content level of re-refined oil but no lower than 25%.	EPA's CPG, www.epa.gov/wastes/conserve/tools/cpg/products/vehicular.htm#rerefined California Contract Code, Sec 10409, www.calrecycle.ca.gov/usedoil/rerefined/GovtProcure.htm	Biobased hydraulic fluids are defined as those formulated for general use in non-stationary equipment, such as tractors, end loaders, or backhoes.
Gear Oils	USDA has designated hydraulic fluid as part of the BioPreferred Program; minimum biobased content of 44%. State Agency Buy Recycled Campaign (SABRC) minimum content requirement: 70 percent re-refined oil	USDA BioPreferred Program, www.biopreferred.gov Green Seal's Standard for Re-refined Engine Oil, GS-03, www.green Seal.org/Portals/0/Documents/Standards/GS-3/GS-3Ed2-2_Re-Refined_Engine_Oil.pdf	
Engine Coolants/Antifreeze	EPA recommends: (1) for motor pool or vehicle maintenance facility to establish a program for reclamation and reuse or a service contract; (2) request reclaimed antifreeze when serviced, or purchase reclaimed engine coolant when making direct purchases; (3) purchase antifreeze containing only one base chemical (typically ethylene glycol or propylene glycol) to prevent commingling of incompatible coolants, and (4) purchase extended-life antifreeze to reduce the need to purchase and manage used antifreeze. State Agency-Buy Recycled Campaign (SABRC): minimum 70% postconsumer content		Propylene glycol based antifreeze is considerably less toxic than ethylene glycol and, unfortunately, is NOT sold as recycled product on its own. Only five percent of all antifreeze sold in the State is propylene glycol based and what is recycled is included in the ethylene glycol based product.

Guidelines for Buying Environmentally Preferable Products: Vehicle Products

Product Category & Products	Environmental Attributes to Consider When Purchasing	Green Standard/Guidelines	Notes/Further Information
Vehicles	<p>Incorporate specifications for reducing hazardous substances found in vehicle parts--mercury, lead and PVC (vinyl)--as well as specifications pertaining to fuel economy and emissions.</p> <p>Choose vehicles with higher scores on the EPA/DOT Fuel Economy and Environmental Label (fuel economy & greenhouse gas rating and smog rating), www.epa.gov/carlabel/documents/420f11017a.pdf</p> <p>Meet Federal and California Exhaust and Evaporative Emissions Standards.</p>	<p>CA Air Resources Board provides emissions information for all vehicles from 2000 to present. Fuel Economy and Environmental Label ratings that include smog and greenhouse gas impacts, specifications and images are provided for buyers to compare the pollution levels between vehicles, DriveClean.ca.gov</p> <p>Federal Emission Standards Reference Guide for Light-Duty Vehicles and Light-Duty Trucks, www.epa.gov/otaq/standards/index.htm</p> <p>Green Seal's Standard for Alternative Fueled Vehicles, GS-02, www.greenseal.org/Portals/0/Documents/Standards/GS-2/GS-2Ed1-1_Alternative_Fueled_Vehicles.pdf</p>	<p>State of CA Bid Specification Alternative Fueled Vehicles, www.documents.dgs.ca.gov/pd/epp/Transportation/trucks/DGS2322-1348.Alternative.Fuel.Vehicles.pdf</p> <p>State of CA Contracts for Cars, Vans & SUV and Trucks, www.bidsync.com/DPX?ac=agencycontview&contid=108300, www.bidsync.com/DPX?ac=agencycontview&contid=108303, www.bidsync.com/DPX?ac=agencycontview&contid=108302</p> <p>US Dept of Energy Alternative Fuels Data Center, California Laws and Incentives, www.afdc.energy.gov/laws/laws/CA</p> <p>Find the latest Automotive Fuel Economy Guide, www.fueleconomy.gov</p> <p>EPA's Green Vehicle Guide, www.epa.gov/greenvehicles</p> <p>INFORM's Purchasing for Pollution Prevention Vehicle Fact Sheets, www.informinc.org/fact_P3vehicles.php, INFORM's Specifications for Cleaner Vehicles, www.informinc.org/fs_P3vehicles2.pdf, INFORM's FAQs for buyers, www.informinc.org/fs_P3vehicles1.pdf www.informinc.org/fact_P3vehicles.php</p>
Vehicular Parts	<p>Use rebuilt (or remanufactured) vehicular parts in passenger, medium and heavy-duty equipment or establish a program for used vehicular parts.</p>		<p>Follow FTC's "Guide for Rebuilt, Reconditioned and Other Use Automotive Parts," www.ecfr.gov/cgi-bin/text-idx?rgn=div5&node=16:1.0.1.2.12 [Note that this Guide is currently under review as part of the FTC's systematic review of all current FTC rules and guides], www.ftc.gov/policy/federal-register-notices/16-cfr-part-20-guides-rebuilt-reconditioned-and-other-used</p>
Vehicle Fuels	<p>Alternative fuels that are less polluting include methanol, compressed natural gas (CNG), liquefied natural gas (LNG), electricity, biodiesel, ethanol and propane.</p>	<p>EPA encourages the use of alternative fuels, www.epa.gov/otaq/consumer/fuels/altfuels/altfuels.htm</p>	<p>State of California Alternative Fueled Vehicles Contract, www.pd.dgs.ca.gov/contracts/vehicles.htm</p> <p>U.S. Department of Energy Alternative Fuels Station Locator, www.afdc.energy.gov/locator/stations</p>

Guidelines for Buying Environmentally Preferable Products: Vehicle Products

Product Category & Products	Environmental Attributes to Consider When Purchasing	Green Standard/Guidelines	Notes/Further Information
Biodiesel Fuel	Meets ASTM D6751 and is legally registered with EPA as a legal motor fuel. Blend at any percentage with petroleum diesel to create a biodiesel fuel blend.	<p>BQ-9000, National Biodiesel Accreditation Program, www.bq-9000.org/</p> <p>National Biodiesel Board, www.biodiesel.org</p> <p>USDA BioPreferred Program, www.biopreferred.gov</p> <p>Specification for Biodiesel (B100), www.biodiesel.org/docs/default-source/ffs-specs/astm-d6751-(b100)-specification.pdf?sfvrsn=6</p>	<p>StopWaste Fact Sheet, Biodiesel Fuel Use in Heavy Duty Vehicles, www.stopwaste.org/EPP</p> <p>Federal Register: Guidelines for Designating Biobased Products for Federal Procurement, (page13705), www.biopreferred.gov/files/Round_1_Final_Rule.pdf</p> <p>USDA BioPreferred Catalog (Operations and Maintenance - Diesel Fuel Additives), www.biopreferred.gov/bioPreferredCatalog/faces/jsp/catalogLanding.jsp</p>
Vehicle Parts Washing and Brake Cleaners	<p>Green Seal: (1) Cleaning Solution: Only aqueous detergents or non-chlorinated solvents are used in a liquid-based cleaning system. (2) Cleaning System reduces generation of hazardous waste compared to a static tank containing solvent that is replaced frequently. Systems meeting this criterion include, but are not limited to, recirculating, filtered systems on a strict maintenance schedule; ultrasonic washers; etc.</p> <p>Comply with the latest Bay Area Air Quality Management District VOC level requirements.</p>	<p>Green Seal's Best Practices Guide for Fleet Maintenance Operations, www.greenseal.org/Portals/0/Documents/Standards/Position%20Statements/Best_Practices_Guide_for_Fleet_Vehicle_Maintenance.pdf</p> <p>California Air Resource Board for latest requirements, www.arb.ca.gov/homepage.htm</p> <p>Green Seal's Specialty Cleaning Products for Industrial and Institutional Use Standard, GS-53, www.greenseal.org/Portals/0/Documents/Standards/GS-53/GS-53_Ed2-1_Specialty_Cleaning_Products_for_Industrial_and_Institutional_Use.pdf</p>	<p>CA Department of Toxic Substance Control (DTSC) Fact Sheet on Aqueous Cleaners, www.dtsc.ca.gov/PollutionPrevention/VSR/upload/AqueousPartsCleanAuto02.pdf</p> <p>CA Department of Toxic Substance Control (DTSC) Fact Sheet on Aqueous Brake Cleaners, www.dtsc.ca.gov/PollutionPrevention/VSR/upload/Brakewash02.pdf</p> <p>CA Department of Toxic Substance Control, Case Studies on Aqueous Parts Cleaning, www.dtsc.ca.gov/PollutionPrevention/VSR/upload/CasestudiesFleet02.pdf</p>
Wheel Weights	Use lead-free wheel weights to reduce environmental impact	<p>State of CA banned the use of lead wheel weights in 2010.</p> <p>The European Union declared a ban on the use of lead in wheel weights in 2005.</p> <p>King County Fact Sheet on Wheel Weights, www.kingcounty.gov/operations/procurement/Services/Environmental_Purchasing/Products.aspx</p>	

Guidelines for Buying Environmentally Preferable Products: Landscaping

Product Category & Products	Environmental Attributes to Consider When Purchasing	Green Standard/Guidelines	Notes/Further Information
Exterior Site Work, Landscaping			
<p style="text-align: center;">Compost (Soil Amendment)</p>	<p>CalRecycle, State Agency Buy Recycled Campaign (SABRC): At least 80% of the product shall consist of materials, including, but not limited to, the materials listed in subdiv. (c) of Sec. 12207 of the PCC, that would otherwise be normally disposed of in landfills. Compost means a product resulting from: (A) the controlled biological decomposition of organic materials including yard trimmings and wood byproducts that are separated from the municipal solid waste stream at the source of generation or at a centralized facility, or other source of organic materials; (B) produced by a supplier that is in compliance with CalRecycle's composting operations regulatory reqs.</p> <p>StopWaste: Compost shall be well decomposed, stable and weed free. It shall be derived from one or more locally sourced organic materials such as: food waste or urban plant debris, agricultural crop residue or herbivore animal manures with a preference for urban plant debris and food waste. It shall not contain mixed solid waste. The product shall contain no substances toxic to plants, will possess no objectionable odors and shall not resemble the feedstock (the original material from which it was derived). Compost shall be tested through the US Composting Council's (USCC) Seal of Testing Assurance (STA) Program. A lab analysis shall be performed by a STA certified laboratory using the test methods used in the STA program found in the Test Methods for Examination of Compost and Composting Manual (TMECC). Verifying current participation in the STA program can be confirmed on the USCC website at www.compostingcouncil.com. The compost lab analysis shall be submitted as part of the "Compost Technical Data Sheet" before delivery of compost.</p> <p>Caltrans: provider must be a participant in US Composting Council Seal of Testing Assurance (STA) Program; derived from any single or mixture of green materials consisting of chipped, shredded, or ground vegetation; or clean processed recycled wood products, biosolids, manure or mixed food waste; compost the feedstock materials such that weed seeds, pathogens and deleterious materials are reduced as specified under Title 14, CA Code of Regs. Div. 7, Chptr 3.1, Article 7, Sec. 17868.3; metal concentrations in compost must not exceed the max. metal concentration as listed in Code Sec. above. Must comply with Caltrans physical & chemical reqs.</p>	<p>CalRecycle Public Contract Code (PCC) Section 12200-12217, www.leginfo.ca.gov/cgi-bin/displaycode?section=pcc&group=12001-13000&file=12200-12217</p> <p>EPA's CPG, www.epa.gov/wastes/conserves/tools/cpg/products/landscaping.htm</p> <p>For a listing of products certified as organic, visit the Organic Materials Review Institute (OMRI) Products List, www.omri.org</p> <p>Caltrans: www.dot.ca.gov/hq/LandArch/policy/compost_specs.htm</p>	<p>The U.S. Department of Transportation's "Standard Specifications for Construction of Roads and Bridges on Federal Highway Projects 1996" specifies compost as one of the materials suitable for use in roadside revegetation projects associated with road construction. These standards do not preclude the use of compost made from yard trimmings, leaves, grass clippings, and/or food waste.</p> <p>Compost sources available at www.stopwaste.org/docs/sheet_mulch_promo_piece.pdf</p> <p>US Composting Council's Seal of Testing Assurance (STA) Program is a compost testing, labeling and information disclosure program to help producers and purchasers determine if a particular compost is suitable for a specific use and to compare various compost products. The various physical, chemical and biological tests that are used are contained in "Test Methods and Examination of Composting & Compost". This publication, information about how to specify compost products for specific uses and a list of SLA participants can be found at the US Composting Council's STA Program, compostingcouncil.org/seal-of-testing-assurance/</p>

Guidelines for Buying Environmentally Preferable Products: Landscaping

Product Category & Products	Environmental Attributes to Consider When Purchasing	Green Standard/Guidelines	Notes/Further Information
Compost blankets, socks, and berms	<p>The American Association of State Highway Transportation Officials (AASHTO) and many individual state Departments of Transportation (DOTs) have issued specifications for compost blankets, berms and filter socks (AASHTO, 2003; USCC, 2001), compostingcouncil.org/admin/wp-content/plugins/wp-pdfupload/pdf/32/AASHTO-Specifications.pdf</p> <p>USCC: For detailed specifications on compost for erosion control, visit http://compostingcouncil.org/specifying-sta/</p>	<p>The U.S. Composting Council (USCC) certifies compost products under its Seal of Testing Assurance (STA) Program, http://compostingcouncil.org/seal-of-testing-assurance/</p> <p>Caltrans's Standard Specifications cover compost blankets and socks, see 2010 Standard Specification 21-1.02, www.dot.ca.gov/hq/esc/oe/construction_standards.html</p>	<p>The U.S. Dept. of Transportation's "Standard Specifications for Construction of Roads and Bridges on Federal Highway Projects 1996" specifies compost as one of the materials suitable for use in roadside revegetation projects associated with road construction. These standards do not preclude the use of compost made from yard trimmings, leaves, grass clippings, and/or food waste.</p> <p>EPA Fact Sheets on Compost Blankets, Berms and Filter Socks, relevant BMP Fact Sheets at http://cfpub.epa.gov/npdes/stormwater/menuofbmps/index.cfm?action=browse</p>
Fertilizers made with organic materials	<p>EPA: Ensure there is no contract language in their specifications relating to such applications as agriculture and crop production, landscaping, horticulture, parks and other recreational facilities, on school campuses, and for golf course and turf maintenance that would preclude or discourage the use of fertilizers made from recovered organic materials.</p> <p>Feed soils naturally and avoid synthetic fertilizers. Quality compost provides a source of slow-release nutrients and trace elements which reduces the need for synthetic fertilizers.</p> <p>Contractor shall select fertilizers that are released over a period of time, are predominantly organic and derived from natural sources, are produced locally, and will not pollute surface and ground water when properly used to provide primary nutrient needs.</p>	<p>EPA's CPG: www.epa.gov/wastes/conservation/tools/cpg/products/landscaping.htm</p> <p>Bay Friendly Landscape Maintenance Specifications, www.bayfriendlycoalition.org/download/bay_friendly_landscape_maintenance_final.pdf</p>	<p>For a list of organically certified products as well prohibited fertilizers, refer to Organic Materials Review Institute (OMRI), www.omri.org</p> <p>Refer to additional resources listed under Compost.</p>

Guidelines for Buying Environmentally Preferable Products: Landscaping

Product Category & Products	Environmental Attributes to Consider When Purchasing	Green Standard/Guidelines	Notes/Further Information
Mulch	<p>Preference for recycled, regionally generated plant debris and/or food waste.</p> <p>Bay Friendly: Maintain a min. of 2" of coarse organic mulch at all times over soil surface that is not covered by vegetation. Mulch materials shall be chipped or shredded green waste, wood chips from pruning operations, or chipped landscape prunings. When available, use materials on-site. Avoid shredded redwood bark mulch.</p> <p>Caltrans: provider must be a compost producer and participant in US Composting Council Seal of Testing Assurance (STA); derived from any single or mixture of green materials consisting of chipped, shredded, or ground vegetation; or clean processed recycled wood products, Biosolids, Manure or Mixed food waste; compost mulch materials such that weed seeds, pathogens and deleterious materials are reduced as specified under Title 14, CA Code of Regs. Division 7, Chapter 3.1, Article 7, Section 17868.3; metal concentrations in composted mulch must not exceed the maximum metal concentration as listed in Code above. Must comply with Caltrans Physical and Chemical Reqs.</p>	<p>Bay-Friendly Guide to Mulch, www.bayfriendlycoalition.org/download/Mulch_Guide%20low%20rez.pdf</p> <p>Bay Friendly Landscape Maintenance Specifications, www.bayfriendlycoalition.org/download/bay_friendly_landscape_maintenance_final.pdf</p> <p>Caltrans: www.dot.ca.gov/hq/LandArch/policy/compost_specs.htm</p>	<p>Bay-Friendly Landscaping Coalition provides workshops and training sessions on the use of compost and mulch, www.bayfriendlycoalition.org/Calendar.shtml</p>
Concrete	<p>Limit impervious surfaces in the landscape wherever practicable, such as using permeable asphalt or pavers for walkways, patios and driveways.</p> <p>EPA: Encourages the use of cement and concrete with recycled content (such as fly ash, slag, cenospheres).</p> <p>Bay Friendly Rated Landscapes: Use a minimum of 25% recycled aggregate (crushed concrete) for walkways, roadway base and other uses; replace portland cement in concrete with fly ash or slag.</p>	<p>Alameda County Clean Water Program, www.cleanwaterprogram.org/business/development.html</p> <p>EPA's CPG, www.epa.gov/wastes/conserves/tools/cpg/products/cemspecs.htm</p> <p>Bay Friendly Scorecard for Commercial & Civic Landscapes found in the Bay Friendly Landscape Guidelines, www.bayfriendlycoalition.org/publications.shtml</p>	
Waste or Recycling Receptacles	<p>EPA: Plastic: 20-100% postconsumer; Steel: 16% postconsumer Paper-corrugated: 25-50% postconsumer; Paper-solid fiber: 40% postconsumer; Paper-industrial paperboard: 40-80% postconsumer</p>	<p>EPA's CPG, www.epa.gov/epawaste/conserves/tools/cpg/products/nonpaperoffice.htm#waste</p>	<p>StopWaste's "Recycled Content Park and Recreation Products" Fact Sheet, www.stopwaste.org/EPP</p>

Guidelines for Buying Environmentally Preferable Products: Landscaping

Product Category & Products	Environmental Attributes to Consider When Purchasing	Green Standard/Guidelines	Notes/Further Information
Lumber	<p>Forest Stewardship Council (FSC): Certified to FSC forest management standard</p> <p>Consider salvaged wood for reuse</p>	<p>Forest Stewardship Council (FSC), https://us.fsc.org/</p>	<p>StopWaste's "Recycled-Content and Salvaged Materials" Guide, http://bayfriendlycoalition.org/download/Recycled%20Content%20Guide.pdf</p> <p>Refer to https://www.stopwaste.org/home/index.asp?page=396 for more tips and sources for reusing salvaged materials in the landscape.</p>
Plastic Lumber Landscaping Timbers and Posts	<p>EPA: HDPE: 25-100% postconsumer content</p> <p>Mixed plastics/sawdust: 50% postconsumer</p> <p>HDPE/fiberglass: 75% postconsumer</p> <p>Other mixed resins: 50-100% postconsumer content</p>	<p>EPA's CPG, www.epa.gov/epawaste/conserves/tools/cpg/products/landscaping.htm#plastic</p>	
Landscape Headers and Edging	<p>EPA: Plastic and/or rubber: 30-100% postconsumer</p> <p>Steel: consider steel products that can have up to 85% postconsumer recycled content</p>	<p>EPA's CPG, www.epa.gov/epawaste/conserves/tools/cpg/products/landscaping.htm#edging</p>	<p>Steel Recycling Institute, Buy Recycled, www.recycle-steel.org/en/Recycling%20Resources/Buy%20Recycled.aspx</p>
Pavers and Tiles	<p>EPA: Rubber: 90-100% postconsumer content</p> <p>Glass: consider postconsumer content</p> <p>Concrete: consider permeable interlocking concrete pavers</p>	<p>EPA's CPG, www.epa.gov/epawaste/conserves/tools/cpg/products/construction.htm#floortiles</p>	<p>See also "Patio blocks" under Construction Products, EPA's CPG, www.epa.gov/epawaste/conserves/tools/cpg/products/construction.htm#patio blocks</p>
Garden and Soaker Hoses	<p>EPA: Garden hose: rubber and/or plastic: 60-65% postconsumer</p> <p>EPA: Soaker hose: rubber and/or plastic: 60-70% postconsumer content</p> <p>100% recycled tire rubber soaker hoses are available</p>	<p>EPA's CPG, www.epa.gov/epawaste/conserves/tools/cpg/products/landscaping.htm#hoses</p>	
Bike Racks	<p>EPA: Steel: 16% postconsumer</p> <p>HDPE: 100% postconsumer content</p>	<p>EPA's CPG, www.epa.gov/epawaste/conserves/tools/cpg/products/miscellaneous.htm#bike</p>	
Integrated Pest Management (IPM)	<p>Use organic pest management or Integrated Pest Management; use least toxic pest control as last resort.</p> <p>City and County of San Francisco: City departments shall give preference to reasonably available non-pesticide alternatives when considering the use of pesticides on City property; shall follow IPM approach listed in policy.</p>	<p>City of San Francisco Integrated Pest Management Program, www.sfenvironment.org/article/pest-management/managing-pests-on-city-properties</p> <p>City of San Francisco Pest Management Ordinance, www.amlegal.com/nxt/gateway.dll/California/environment/chapter3integratedpestmanagementprogram?f=templates\$fn=default.htm\$3.0\$vid=amlegal:sanfrancisco_ca</p> <p>EcoWise Certified Standards for Integrated Pest Management Certification, www.ecowisecertified.org/</p>	<p>Directory of Least Toxic Pest Control Products, or other publications from the Bio-Integral Resource Center, www.birc.org</p> <p>UC Davis Online Integrated Pest Management Program, www.ipm.ucdavis.edu</p> <p>Urban Pesticide Pollution Prevention Project (UP3), www.up3project.org/up3_index.shtml</p> <p>Model Bay Friendly Landscape Maintenance Specifications, www.bayfriendlycoalition.org/download/bay_friendly_landscape_maintenance_final.pdf</p>

**Guidelines for Buying Environmentally Preferable Products:
Landscaping**

Product Category & Products	Environmental Attributes to Consider When Purchasing	Green Standard/Guidelines	Notes/Further Information
Plants	Bay Friendly: Select plants that grow to natural size and avoid shearing; give preference to native or drought tolerant plants; do not use invasive plants; choose California natives first.	Bay Friendly Scorecard for Commercial & Civic Landscapes found in the Bay Friendly Landscape Guidelines, www.bayfriendlycoalition.org/publications.shtml	"Plants and Landscapes for Summer Dry Climates," www.ebmud.com/about/publications/plants-and-landscapes-for-summer-dry-climates WUCOLS: Water Use Classification of Landscape Species http://ucanr.edu/sites/WUCOLS/ California Native Plants Society (CNPS), www.cnps.org ; or search for native plants nurseries at the California Native Plant Link Exchange, www.cnps.org/cnps/grownative/where_to_buy.php
Irrigation	Bay Friendly: Design for on-site rainwater collection, recycled water and/or graywater use; group plants based on water needs; design and install high efficiency irrigation system; install dedicated meter or submeter for landscape water use.	Bay Friendly Scorecard for Commercial & Civic Landscapes found in the Bay Friendly Landscape Guidelines, www.bayfriendlycoalition.org/publications.shtml	
Lighting	Bay Friendly: Low energy or photovoltaic fixtures; exterior luminaries emit no light above horizontal or are Dark Sky certified.	Bay Friendly Scorecard for Commercial & Civic Landscapes found in the Bay Friendly Landscape Guidelines, www.bayfriendlycoalition.org/publications.shtml	International Dark-Sky Association, www.darksky.org
Plastic Temporary Fencing	Coming under many different names depending on application, snow fencing, safety fencing, etc., is typically an orange (sometimes red or green) product in an open-weave pattern also described as a woven plastic mesh or chain link style. Plastic temporary fencing is usually available in 50 to 100 foot rolls that are 4 to 8 feet in height. The most common postconsumer plastic resin used to make such fencing is high density polyethylene (HDPE).	CA Public Contract Code: State agencies must ensure at least 50% of their dollars spent on plastic products be spent on plastic products containing a minimum of 10% postconsumer plastic	

Guidelines for Buying Environmentally Preferable Products: Parks and Recreation

Product Category & Products	Environmental Attributes to Consider When Purchasing	Green Standard/Guidelines	Notes/Further Information
Parks and Recreation Products			
Park Benches	EPA: Plastic: 90-100% postconsumer content Plastic composite: 50-100% postconsumer content	EPA's CPG, www.epa.gov/epawaste/conserves/tools/cpg/products/park.htm#benches	Refer to StopWaste's "Recycled Content Park and Recreation Products" Fact Sheet for sample specifications and local resources, www.stopwaste.org/EPP
Plastic Fencing (for specified uses)	EPA: 60-100% postconsumer content	EPA's CPG, www.epa.gov/epawaste/conserves/tools/cpg/products/park.htm#fencing	
Playground Equipment	EPA: Plastic: 90-100% postconsumer content Plastic composite: 50-75% postconsumer content	EPA's CPG, www.epa.gov/epawaste/conserves/tools/cpg/products/park.htm#playequip	Refer to StopWaste's "Recycled Content Park and Recreation Products" Fact Sheet for sample specifications and local resources, www.stopwaste.org/EPP
Playground Surfaces	EPA: Plastic or rubber: 90-100% postconsumer content	EPA's CPG, www.epa.gov/epawaste/conserves/tools/cpg/products/park.htm#playsurf	
Running Tracks	EPA: Plastic or rubber: 90-100% postconsumer content	EPA's CPG, www.epa.gov/epawaste/conserves/tools/cpg/products/park.htm#running	The CalRecycle Recycled-Content Product Manufacturers (RCPM) directory lists recycled-content products made by California manufacturers who use recycled waste as a feedstock, www.calrecycle.ca.gov/RCPM/Default.aspx The CalRecycle Tire-Derived Product Catalog lists tire-derived products (TDPs) made from California-generated waste tires, www.calrecycle.ca.gov/tires/products/Catalog/default.htm
Signage, Sign Posts/Supports	EPA: Plastic: 80-100% postconsumer content	EPA's CPG, www.epa.gov/epawaste/conserves/tools/cpg/products/miscellaneous.htm#signage	The CalRecycle Recycled-Content Product Manufacturers (RCPM) directory lists recycled-content products made by California manufacturers who use recycled waste as a feedstock, www.calrecycle.ca.gov/RCPM/Default.aspx
Golf course signage, markers, divot mix containers and other golf course supplies and accessories	Recycled content (up to 100% postconsumer plastic)		The CalRecycle Recycled-Content Product Manufacturers (RCPM) directory lists recycled-content products made by California manufacturers who use recycled waste as a feedstock, www.calrecycle.ca.gov/RCPM/Default.aspx

Guidelines for Buying Environmentally Preferable Products: Miscellaneous

Product Category & Products	Environmental Attributes to Consider When Purchasing	Green Standard/Guidelines	Notes/Further Information
Miscellaneous Products			
Awards and plaques	EPA: Glass: 75-100% postconsumer; Paper: 40-100% postconsumer; Plastic & plastic wood composite: 50-100% postconsumer	EPA's CPG, www.epa.gov/epawaste/conservation/tools/cpg/products/miscellaneous.htm#awards	
Industrial drums	EPA: Plastic (HDPE): 30-100% postconsumer; Fiber: 100% postconsumer; Steel: 16% postconsumer	EPA CPG, www.epa.gov/epawaste/conservation/tools/cpg/products/miscellaneous.htm#drums	An industrial drum is a cylindrical container used for shipping and storing liquid or solid materials. According to the Plastic Drum Institute (PDI), between 12 and 15 million plastic drums are manufactured annually. Most drums are used to ship chemical and petroleum products.
Mats	EPA: Rubber: 75-100% postconsumer; Plastic: 10-100% postconsumer; Rubber/Plastic composite: 100% postconsumer	EPA CPG, www.epa.gov/epawaste/conservation/tools/cpg/products/miscellaneous.htm#mats	Mats are temporary or semi permanent protective floor coverings used for numerous applications including protecting carpet from wear and tear or providing traction on stairs or slippery floors.
Pallets	EPA: Wood: 95-100% postconsumer; Plastic lumber: 100% postconsumer; Plastic thermoformed: 25-50% postconsumer Paperboard pallets: 50% postconsumer	EPA CPG, www.epa.gov/epawaste/conservation/tools/cpg/products/miscellaneous.htm#pallets	Pallets are rigid platforms made of wood, plastic, or paperboard used for shipping a variety of products including food, paper, and military supplies.
Sorbents	EPA: Paper: 90-100% postconsumer; Textiles: 95-100% postconsumer; Plastics, Wood and Other Organics or Multimaterials: 25-100% preconsumer recycled content	EPA CPG, www.epa.gov/epawaste/conservation/tools/cpg/products/miscellaneous.htm#pallets	Absorbents and adsorbents (referred to as "sorbents") are used in environmental, industrial, agricultural, medical, and scientific applications to retain liquids and gases. Absorbents incorporate substances throughout the body of the absorbing material, while adsorbents gather substances over the surface of the material.